

NTA UGC NET AUG 2024 21st Aug to 04th Sep 2024 mar Edu. com

Application No	
Candidate Name	
Roll No.	
Test Date	23/08/2024
Test Time	9:00 AM - 12:00 PM
Subject	87 Computer Science and Applications

Section: General Paper

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Proportion of passed Students				
	Arts : Science : Commerce	Arts	Science	Commerece	
		M : F	M: F	M : F	
A	2:4:5	31:14	23:27	11:7	
В	7:2:4	37:33	43:32	29:21	
C 1:4:2 D 5:7:4 E 4:3:8 F 2:4:3			ARUS MENER OFFICE DE	31:29	
				23:17	
		4:3:8 23:17 41	41:34	57:23	
		F	47:28	11:7	16:11
G	3:5:4	29:21	27:24	53:47	

If the number of females who passed in Arts from City-C is 768, then the number of males who % of the number of students who umar Education passed in Commerce from City-C is approximately ___ passed from City-C.

- (1) 14.76
- 18.24 (2) (3) 27.8
- (4)32.5

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Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type : MCQ

Question ID: 5330723678 Option 1 ID : 53307214313 Option 2 ID : 53307214314

Option 3 ID: 53307214315 Option 4 ID: 53307214316

Status: Answered



The following table shows the proportion of students passed in three different Graduation Streams, and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow. City-wise details of Graduating students

City	Proportion of passed Students				
	Arts : Science : Commerce	Arts	Science	Commerece	
		M : F	M: F	M : F	
A	2:4:5	31:14	23:27	11:7	
В	7:2:4	37:33	43:32	29:21	
С	1:4:2	34:16	57:43	31:29	
D	D 5:7:4		51:33	23:17	
E	4:3:8	23:17	41:34	57:23	
F	2:4:3	47:28	11:7	16:11	
G	3:5:4	29:21	27:24	53:47	

SubQuestion No: 2

For City-A, if the total number of males who passed in Arts is 2480, then what is the difference between the number of students who passed in Commerce and that in Science?

- (1)
- (2)1000
- 1400 (3)
- (4) 1800

Options 1. 1

- 2.2
- 3.3

4.4

Question Type: MCQ

Question ID : 5330723676

Option 1 ID : 53307214305

Option 2 ID: 53307214306

Option 3 ID : 53307214307 Option 4 ID: 53307214308

Download Status : Answered MumarEdu.com Chosen Option : 2



The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Proportion of passed Students				
	Arts : Science : Commerce	Arts	Science	Commerece	
		M : F	M: F	M : F	
A	2:4:5	31:14	23:27	11:7	
В	7:2:4	37:33	43:32	29:21	
С	1:4:2	34:16	57:43	31:29	
D	5:7:4	17:13	51:33	23:17	
E	4:3:8	23:17	41:34	57:23	
F	2:4:3	47:28	11:7	16:11	
G	3:5:4	29:21	27:24	53:47	

SubQuestion No: 3

- **Q.3** If the number of males who passed in Commerce from City-G is 2544, then what is the number of students who passed in Arts from City-G?
 - (1) 3600
 - (2) 4200
 - (3) 4800
 - (4) 3400
- Options 1. 1
 - 2. 2
 - 3. 3
 4. 4

Question Type : MCQ

Question ID : <u>5330723675</u>

Option 1 ID : <u>53307214301</u>

Option 2 ID : 53307214302

Option 3 ID : <u>53307214303</u> Option 4 ID : <u>53307214304</u>

Status : Answered



The following table shows the proportion of students passed in three different Graduation Streams, and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow. City-wise details of Graduating students

City	Proportion of passed Students				
	Arts : Science : Commerce	Arts	Science	Commerece	
		M : F	M : F	M : F	
A	2:4:5	31:14	23:27	11:7	
В	7:2:4	34:16 57:4	43:32	29:21 31:29 23:17	
С	1:4:2		57:43		
D	5:7:4		51:33		
E 4:3:8		4:3:8 23:17	41:34	57:23	
F	2:4:3	47:28	11:7	16:11	
G	3:5:4	29:21	27:24	53:47	

SubQuestion No: 4

The number of males who passed in Commerce from City-F is approximately ____ than the number of females who passed in Commerce from City-F.

- 31.25 (1)
- (2)47.47
- 45.45 (3)
- (4) 42.67

Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type: MCQ

Question ID : 5330723679

Option 1 ID : 53307214317

Option 2 ID: 53307214318

Option 3 ID : 53307214319 Option 4 ID: 53307214320

Download Status: Answered KumarEdu.com
Chosen Option: 1



City-wise details of Graduating students

The following table shows the proportion of students passed in three different Graduation Streams, and FREE from KumarEdu.com namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City	Proportion of passed Students				
	Arts : Science : Commerce	Arts	Science	Commerece	
		M : F	M: F	M : F	
A	2:4:5	31:14	23:27	11:7	
В	7:2:4	37:33	43:32	29:21	
С	1:4:2	34:16	57:43	31:29	
D	5:7:4	17:13	51:33	23:17	
E	4:3:8	23:17	41:34	57:23	
F	2:4:3	47:28	11:7	16:11	
G	3:5:4	29:21	27:24	53:47	

SubQuestion No: 5

If the number of students who passed in Commerce from City-F is 3240, then the number of students who passed from City-F is____ _____% of the number of Science students who passed from City-F.

- (1) 75
- 150 (2)
- 180 (3)
- (4) 225

Options 1. 1

- 2.2
- 3.3
- 4 4

Question Type: MCQ

Question ID : 5330723677

Option 1 ID: 53307214309 Option 2 ID: 53307214310

Option 3 ID: 53307214311

Option 4 ID : 53307214312

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Chosen Option: 2

Q.6 A researcher decides to tell participants something false about a research session in order to mislead them. The researcher is using:

- (1) Naturalistic observation
- (2)Role playing
- (3) Active deception
- (4) Dehoaxing

Options 1. 1

- 2.2
- 3.3 4.4

Question Type: MCQ

Question ID : 5330723685

Option 1 ID: 53307214341 Option 2 ID: 53307214342

Option 3 ID: 53307214343

Option 4 ID: 53307214344

Status: Answered



Q.7 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (Type of variable) (Example) (A) Nominal Satisfaction level (I) Ordinal (B) (II) Weight Interval (C) (III) Ethnicity (D) Ratio (IV) Year of death Choose the correct answer from the options given below: (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (2)(A)-(I), (B)-(III), (C)-(II), (D)-(IV) (3)(A)-(III), (B)-(IV), (C)-(II), (D)-(I) (A)-(III), (B)-(I), (C)-(IV), (D)-(II) (4)Options 1. 1 2. 2 3.3 4. 4 Question Type: MCQ Question ID: 5330723689 Option 1 ID : 53307214357 Option 2 ID : 53307214358 Option 3 ID: 53307214359 Option 4 ID: 53307214360 Status: Answered Chosen Option: 3 Education



Arrange the following fractions in increasing order inloaded FREE from KumarEdu.com

- (A) $\frac{12}{17}$
- (B) $\frac{13}{19}$
- (C) $\frac{8}{11}$
- (D) $\frac{16}{23}$

Choose the correct answer from the options given below:

- (1) (B), (D), (A), (C)
- (2) (B), (A), (C), (D)
- (3) (D), (A), (B), (C)
- (4) (D), (B), (C), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : <u>5330723697</u>

Option 1 ID : <u>53307214389</u> Option 2 ID : <u>53307214390</u>

Option 3 ID : 53307214391

Downlo Option 4 ID: 53307214392 KumarEdulcom

Status : Answered



Which of the following universities were set up in 1916 aded FREE from KumarEdu.com

- (A) Osmania University
- (B) S.N.D.T Women's University
- (C) Mysore University
- (D) Patna University
- (E) Benaras Hindu University

Choose the correct answer from the options given below:

- (1) (A), (B) and (C) only
- (2) (B), (C) and (E) only
- (3) (B), (C) and (D) only
- (4) (A), (D) and (E) only

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 5330723716 Option 1 ID : 53307214465 Option 2 ID : 53307214466 Option 3 ID : 53307214467 Option 4 ID : 53307214468

Status : Answered

Chosen Option: 4

Q.10 What can be inferred correctly from the following? "No musicians are Greeks. All traders are Musicians. Therefore, no traders are Greeks"

(A) It represents figure II of the syllogistic argument

- (B) It is an EAE mood
- (C) The term 'Greeks' is the major term
- (D) The minor term of the conclusion is distributed
- (E) The middle term is undistributed

Choose the correct answer from the options given below:

- (1) (A), (B) and (C) only
- (2) (B), (C) and (D) only
- (3) (D) and (E) only
- (4) (A), (C) and (E) only

Options 1. 1

- 2. 2
- 3.3
- 4.4

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Question Type : MCQ

Question ID : <u>5330723702</u> Option 1 ID : <u>53307214409</u>

Option 2 ID : <u>53307214410</u> Option 3 ID : <u>53307214411</u>

Option 4 ID : <u>53307214411</u>

Status : Answered

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Q.11 Identify the pattern of the Argument in the following "Habits are like a cable. We weave a strand of it everyday and soon it cannot be broken."

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(1) Causal Argument

- (2) Argument from Analogy
- (3) Argument from Authority
- (4) Argument from Definition

Options 1. 1

- 2. 2
- 3.3
- 4 4

Question Type : MCQ

Question ID: 5330723700
Option 1 ID: 53307214401
Option 2 ID: 53307214402
Option 3 ID: 53307214403
Option 4 ID: 53307214404
Status: Answered

Chosen Option: 2

Q.12 What in the following can be correctly inferred? "You know how I know animals have souls? Because on an average, the lowest animal is a lot nicer and kinder than most of the human beings that inhabit this Earth".

- (A) Premise: The lowest animal is a lot nicer and kinder than most human beings that inhabit this Earth.
- (B) Premise: Animals have soul
- (C) It is not an argument
- (D) Conclusion: The lowest animal is a lot nicer and kinder than most human beings that inhabit this Earth
- (E) Conclusion: Animals have soul

Choose the correct answer from the options given below:

- (1) (B), (C) and (D) only
- (2) (A), (C) and (E) only
- (3) (A) and (E) only
- (4) (A), (D) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

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Question Type : MCQ

Question ID: <u>5330723701</u>
Option 1 ID: <u>53307214405</u>
Option 2 ID: <u>53307214406</u>
Option 3 ID: <u>53307214407</u>
Option 4 ID: <u>53307214408</u>
Status: **Answered**

Which of the following criteria in research relates mainly to the issue of causality? Downloaded FREE from KumarEdu.com Transferability (2)Measurement validity (3)External validity Internal validity (4) Options 1. 1 2.2 3. 3 4.4 Question Type: MCQ Question ID : 5330723686 Option 1 ID: 53307214345 Option 2 ID: 53307214346 Option 3 ID: 53307214347 Option 4 ID : 53307214348 Status: Answered Chosen Option: 4 Q.14 Match List - I with List - II. List - I List - II (Constitutional Provision of Education) (Article) (A) Women's Education 28 (I) Education of Minorities 21-A (B) (II) Secular Education (C) (III) 15 (Part-II) (D) Right to Education (IV) 29 (Part-III) Choose the correct answer from the options given below: **Kumar Education** (A)-(III), (B)-(I), (C)-(IV), (D)-(II) (2)(A)-(I), (B)-(II), (C)-(IV), (D)-(III) Downloaded FREE from KumarEdu.com (3)(A)-(III), (B)-(IV), (C)-(I), (D)-(II) (4) (A)-(I), (B)-(IV), (C)-(II), (D)-(III) Options 1. 1 2.2 3. 3 4.4 Question Type: MCQ Question ID : 5330723717 Option 1 ID: 53307214469 Option 2 ID: 53307214470 Option 3 ID : 53307214471 Option 4 ID: 53307214472 Status: Answered



- Three major actions in the process of Communication are added FREE from KumarEdu.com
 - (A) Receiving
 - (B) Sending
 - (C) Reviewing
 - (D) Interpreting
 - (E) Analysing

Choose the correct answer from the options given below:

- (1) (C), (D) and (E) only
- (2) (A), (C) and (D) only
- (3) (A), (B) and (D) only
- (4) (A), (D) and (E) only
- Options 1. 1
 - 2. 2
 - 3. 3
 - 4.4

Question Type : MCQ

Question ID : 5330723693
Option 1 ID : 53307214373
Option 2 ID : 53307214374
Option 3 ID : 53307214375
Option 4 ID : 53307214376

Status : Answered

Chosen Option: 3

- Q.16 Arrange the following states in ascending order according to their area under forest cover:
 - (A) Arunachal Pradesh
 - (B) Chhattisgarh
 - (C) Maharastra
 - (D) Odisha
 - (E) Madhya Pradesh

Choose the **correct** answer from the options given below:

- (1) (A), (C), (D), (B), (E)
- (2) (C), (D), (B), (A), (E)
- (3) (B), (A), (C), (E), (D)
- (4) (D), (B), (A), (E), (C)
- Options 1. 1
 - 2. 2
 - 3.3
 - 4. 4

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Question Type : MCQ

Question ID: 5330723712
Option 1 ID: 53307214449
Option 2 ID: 53307214450
Option 3 ID: 53307214451
Option 4 ID: 53307214452

Status : Answered



Q.17 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (Forms of Non-existence) (Representation) (A) Anyonyābhāva Hare's horn Atyantābhāva there is non-existence of the jar now (C) Prāgabhava (III) This is not that (D) Pradhvamsābhava (IV) Temporary absence of a thing Choose the correct answer from the options given below: (1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III) (2)(A)-(I), (B)-(III), (C)-(II), (D)-(IV) (3)(A)-(III), (B)-(I), (C)-(IV), (D)-(II) (A)-(IV), (B)-(II), (C)-(I), (D)-(III) Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID : 5330723703 Option 1 ID: 53307214413 Option 2 ID : 53307214414 Option 3 ID : 53307214415 Option 4 ID : 53307214416 Status: Answered Chosen Option: 3 Q.18 The amount of biomass produced by the plants through photosynthesis minus respiration losses in a given time period is known as: Gross Primary Productivity **Kumar Education** (2)Net Primary Productivity (3) Gross Ecological Productivity (4) Net Secondary Productivity Downloaded FREE from KumarEdu.com Options 1. 1 2.2 3.3 4. 4 Question Type: MCQ Question ID: 5330723710 Option 1 ID: 53307214441 Option 2 ID: 53307214442 Option 3 ID : 53307214443 Option 4 ID: 53307214444 Status: Answered Chosen Option: 2



Which among the following fuels produces least amount of soot particles during combustion?

(1) Petrol

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Petrol
 Kerosene

(3) Diesel

(4) Compressed Natural Gas (CNG)

Options 1. 1

2. 2

3. 3

4.4

Question Type : MCQ

Question ID: <u>5330723711</u>
Option 1 ID: <u>53307214445</u>
Option 2 ID: <u>53307214446</u>
Option 3 ID: <u>53307214447</u>
Option 4 ID: <u>53307214448</u>

Status : Answered

Chosen Option: 4

Q.20 What among the following is incorrect about SWAYAM Prabha?

(1) It was launched by Sri Abul Kalam Azad.

(2) Satellite is used for telecasting the educational contents through DTH channels.

(3) The web portal of SWAYAM Prabha is maintained by INFLIBNET, Gujarat.

(4) The contents for SWAYAM Prabha are provided by NPTEL, IITs, UGC, CEC and IGNOU.

Options 1. 1

2. 2

3.3

4.4

Question Type : MCQ

Question ID : 5330723684 COLON

Option 1 ID : <u>53307214337</u>

Downlo Option 2 ID: 53307214338 KumarEdu com

Option 3 ID : <u>53307214339</u> Option 4 ID : <u>53307214340</u> Status : **Answered**



Q.21 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - II List - I (Internet Term) (Description) (A) Blogs Allows users to create and edit web pages using a browser (II) A type of bookmarking where a user "marks" a webpage (B) Podcasts or photo using text to describe its contents (C) Tagging (III) A series of digital media files (IV) Personal internet journals (D) Wikis Choose the correct answer from the options given below: (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (2)(A)-(III), (B)-(IV), (C)-(II), (D)-(I) (3)(A)-(IV), (B)-(III), (C)-(II), (D)-(I) (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) Options 1. 1 2.2 3. 3 4.4 Question Type: MCQ Question ID : 5330723709 Option 1 ID: 53307214437 Option 2 ID: 53307214438 Option 3 ID: 53307214439 Option 4 ID: 53307214440 Status: Answered Chosen Option: 3 Q.22 According to National Credit Framework (NCrF) the credit level earned after Doctoral degree (Ph.D.) will be: (1) 7 (2) 8 9 (3) **Kumar Education** (4) 10 Options 1. 1 Downloaded FREE from KumarEdu.com 2 2 3.3 4. 4 Question Type : MCQ Question ID: 5330723719 Option 1 ID: 53307214477 Option 2 ID : 53307214478 Option 3 ID: 53307214479 Option 4 ID: 53307214480 Status: Answered Chosen Option: 2



Q.23 What among the following can be correctly claimed in the light of 'Assessment Rubrics'?

- (A) A tool used to interpret and grade students on the basis of some criterion. Wnloaded FREE from KumarEdulcom
- (B) A means to increase subjective evaluation by the evaluator.
- (C) It ensures transparency and fairness in the marking process.
- (D) It provides an opportunity to set orbitrary standards and guidelines for moderation.
- (E) It is an innovative evaluation system.

Choose the correct answer from the options given below:

- (A), (C), and (D) only (1)
- (2)(A), (B) and (C) only
- (3)(C), (D), and (E) only
- (A), (C), and (E) only (4)
- Options 1. 1
 - 2. 2
 - 3.3
 - 4.4

Question Type: MCQ

Question ID : 5330723680 Option 1 ID : 53307214321 Option 2 ID: 53307214322 Option 3 ID : 53307214323 Option 4 ID: 53307214324

Status: Answered Chosen Option: 1

Q.24 What can be correctly inferred about the Traditional Teaching Method and Support System?

- (A) Teacher is responsible to control the class and teach with the usage of blackboard
- (B) It is also known as 'Back-to Basics' System.
- (C) The student carries the responsibilities to use self-learning tools.
- (D) Virtual labs are used as one of the Teaching tools.
- (D) Virtual labs are used as one or the reaching work.

 (E) Charts, Maps and Textbooks are the prime resources and handouts are used by the teacher than the teacher that the teacher than the teacher than the te
- (1) (B) and (C) only
- (2) (A), (B) and (D) only
- (3) (D) and (E) only
- (A), (B), and (E) only
- Options 1. 1
 - 2 2
 - 3.3
 - 4.4

Question Type: MCQ

Question ID : 5330723683 Option 1 ID: 53307214333

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Option 2 ID: 53307214334

Option 3 ID : 53307214335 Option 4 ID: 53307214336

Status: Answered



Q.25 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (Applications) (Communication term) (A) Interviews (I) Group Communication (B) Newspaper (II)Intrapersonal Communication (C) Classroom (III) Interpersonal Communication (D) Meditation (IV) Mass Communication Choose the correct answer from the options given below: (A)-(I), (B)-(III), (C)-(II), (D)-(IV) (2)(A)-(II), (B)-(IV), (C)-(III), (D)-(I) (3)(A)-(IV), (B)-(I), (C)-(II), (D)-(III) (4)(A)-(III), (B)-(IV), (C)-(I), (D)-(II) Options 1. 1 2.2 3.3 4 4 Question Type : MCQ Question ID : 5330723694 Option 1 ID : 53307214377 Option 2 ID: 53307214378 Option 3 ID: 53307214379 Option 4 ID : 53307214380 Status: Answered Chosen Option: 4 Q.26 Identify the correct order of the following major technological changes A-D in the development of **Kumar Education** computers based on first to fourth generation of computers : (A) Transistors (B) Microprocessor Downloaded FREE from KumarEdu.com (C) Vacuum tubes (D) Integrated circuits Choose the correct answer from the options given below: (1) (A), (C), (D), (B) (B), (A), (C), (D) (2)(3) (D), (A), (C), (B) (4)(C), (A), (D), (B) Options 1. 1 2.2 3. 3 4.4 Question Type: MCQ Question ID : 5330723707 Option 1 ID : 53307214429 Option 2 ID: 53307214430 Option 3 ID: 53307214431 Option 4 ID: 53307214432 Status: Answered Chosen Option: 4

Q.27

Eye irritation is the common phenomenon during smog. It is mostly caused by:

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- (A) Formaldehyde
- (B) Per-oxy acetyl Nitrate
- (C) Ozone
- (D) Acrolin

Choose the correct answer from the options given below:

- (A), (B) and (C) only
- (2)(A), (B) and (D) only
- (3)(C), (D) and (A) only
- (B), (C) and (D) only (4)
- Options 1. 1
 - 2.2
 - 3.3
 - 4.4

Question Type: MCQ

Question ID : 5330723713 Option 1 ID: 53307214453 Option 2 ID: 53307214454 Option 3 ID : 53307214455 Option 4 ID : <u>53307214456</u> Status: Answered

Chosen Option: 2

Q.28 Arrange the data sets with following pairs of mean (\bar{x}) and standard derivation (σ) in increasing order of their coefficient of variation.

- (A) $\bar{x} = 8$, $\sigma = 1.7$
- (B) $\bar{x} = 11, \ \sigma = 2.2$
- (C) $\bar{x} = 15, \ \sigma = 3.6$
- (D) $\bar{x} = 16, \ \sigma = 3$

Choose the correct answer from the options given below:

- (1) (A), (B), (D), (C)
- (2) (B), (D), (C), (A)
- (3) (C), (B), (D), (A)
- (4) (D), (B), (A), (C)
- Options 1. 1
 - 2. 2
 - 3 3
 - 4. 4



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Question Type : MCQ

Question ID : 5330723687 Option 1 ID : 53307214349 Option 2 ID : 53307214350 Option 3 ID : 53307214351

Option 4 ID : 53307214352 Status: Answered



Q.29 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (International Treaties) (Key Objectives) (A) Sendai Framework (I) Equality between men and women Monterry Concensus (II) Our common future (C) Beijing Declaration (III) Disaster Risk Reduction (IV) Financing for development (D) Brundtland Report Choose the correct answer from the options given below: (A)-(III), (B)-(IV), (C)-(I), (D)-(II) (2)(A)-(IV), (B)-(I), (C)-(II), (D)-(III) (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) Options 1. 1 2. 2 3.3 4.4 Question Type : MCQ Question ID : 5330723714 Option 1 ID: 53307214457 Option 2 ID: 53307214458 Option 3 ID : 53307214459 Option 4 ID: 53307214460 Status: Answered Chosen Option: 2 Q.30 Which of the following can not be treated as the folk tradition of communication in India? (1) Cinema **Kumar Education** Jatra (2)Ramleela (3)Kumbh Mela (4)Downloaded FREE from KumarEdu.com Options 1. 1 2.2 3 3 4.4 Question Type: MCQ Question ID : 5330723691 Option 1 ID: 53307214365 Option 2 ID: 53307214366 Option 3 ID: 53307214367 Option 4 ID: 53307214368 Status: Answered Chosen Option: 1

A person sold an item at a loss of 7%. Had he sold the item at a gain of 7.5%, he would have Downloaded FREE from KumarEdu.com received Rs. 87 more than his selling price. The cost price of the item is: (1) Rs. 500

Rs. 550

(2)Rs 600 (3)

(4) Rs. 650

Options 1. 1

2. 2

3.3

4 4

Question Type: MCQ

Question ID : 5330723695 Option 1 ID: 53307214381 Option 2 ID: 53307214382 Option 3 ID : 53307214383 Option 4 ID : 53307214384

Status: Answered

Chosen Option: 3

Q.32 Identify the numbers that occur in the series 1, 7, 17, 31, 49,

(A) 74

(B) 95

(C) 97

(D) 127

161 (E)

Choose the correct answer from the options given below:

(A), (B), (C) only

(C), (D), (E) only (2)

(3)(E), (B), (A) only

(C), (D), (B) only (4)

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Options 1. 1

2.2

3.3

4.4

Question Type : MCQ

Question ID: 5330723698 Option 1 ID: 53307214393 Option 2 ID : 53307214394 Option 3 ID: 53307214395 Option 4 ID: 53307214396

Status: Answered

Q.33

Arrange the '5 Ws' of communication in proper sequence aded FREE from KumarEdu.com

- Why (A)
- When (B)
- (C) What
- (D) Who
- (E) Where

Choose the correct answer from the options given below:

- (C), (D), (E), (B) and (A)
- (E), (D), (B), (C) and (A) (2)
- (A), (B), (C), (D) and (E) (3)
- (B), (A), (C), (D) and (E) (4)

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type: MCQ

Question ID : 5330723692 Option 1 ID: 53307214369

Option 2 ID: 53307214370 Option 3 ID: 53307214371

Option 4 ID: 53307214372

Status: Answered Chosen Option: 1

Kumar Education Q.34

Which is the first newspaper published in India in modern times? Downloaded FREE from KumarEdu.com

- Hickey's Bengal Gazzette
- India Gazette (2)
- Samvad Kaumudi (3)
- Udant Martand (4)

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type: MCQ

Question ID: 5330723690

Option 1 ID: 53307214361

Option 2 ID: 53307214362

Option 3 ID: 53307214363

Option 4 ID: 53307214364

Status: Answered



In a race of 500 m run, A beats B by 20 m and C by 80 m. If B and C are running another race of 100 m with exactly same speed as before, then by how many meters will B beat 30wnloaded FREE from KumarEdu.com (1) 8.5 m (2)15.0 m (3)(4) 12.5 m Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID : 5330723696 Option 1 ID: 53307214385 Option 2 ID: 53307214386 Option 3 ID: 53307214387 Option 4 ID: 53307214388 Status: Answered Chosen Option: 2 Q.36 If $(L)_M$ represents a number L in base-M number system, then what will be the value of $(107)_{16}^{11} + (257)_{16}$? $(762)_{10}$ (1) (2) $(862)_{10}$ (962)10 (3) (662)10 (4) Options 1. 1 2.2 3.3 4.4 Question Type Mcc ducation Question ID : 5330723705 Downlo Option 1 ID: 53307214421 KumarEdu.com Option 2 ID : 53307214422 Option 3 ID : 53307214423 Option 4 ID: 53307214424 Status: Answered Chosen Option: 2

					<u> </u>	
Q.37	According to UGC regulations 2018 on plagiarism, which of the following similarities constitute					
	Level (A)	- 1 plagiarism ?			Downloaded FREE from KumarEdu.com	
		12%				
	, ,	28%				
	, ,	56% 37%				
		e the most appropriate answer from the options giv	en belo	ow:		
		(A), (B) and (C) only				
		(B), (C) and (D) only (A), (C) and (E) only				
		(B), (C) and (E) only				
Options	1. 1					
	2. 2					
	3. 3					
	4.4					
					Outstan Time (MOO	
					Question Type : MCQ Question ID : 5330723688	
					Option 1 ID : <u>5330724353</u>	
					Option 2 ID : <u>53307214354</u>	
					Option 3 ID : <u>53307214355</u>	
					Option 4 ID : <u>53307214356</u>	
					Status : Answered	
					Chosen Option : 3	
Q.38						
	Ma	tch List - I with List - II.				
		List - I		List -	JAN	
		(Word)		(Unio	que Code)	
	(A)	QUAKE	(I)	KTI	Kumar Education	
	(B)	OFTEN (II)	VH	DDD	
	(C)	PEACH (III)	IEY	O Pownloaded FREE from KumarEdu.com	
	(D)		IV)		WR	
	, ,	pose the correct answer from the				
	(1)	(A)-(I), (B)-(III), (C)-(II), (D)-(tionio (
	(2)	(A)-(II), (B)-(IV), (C)-(III), (D)				
	(3)	(A)-(III), (B)-(I), (C)-(IV), (D)-				
	(4)	(A)-(IV), (B)-(II), (C)-(I), (D)-(III)			
Options	1. 1					
	2. 2					
	3. 3					
	4. 4					
					Question Type : MCQ	
					Question ID : <u>5330723699</u>	
					Option 1 ID : <u>53307214397</u>	
					Option 2 ID : <u>53307214398</u>	
					Option 3 ID : <u>53307214399</u>	
					Option 4 ID : <u>53307214400</u>	

Status : Answered



Q.39 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - II List - I (Types of Teaching) (Description) A teaching technique especially used in teacher's Macro teaching pre-service education to train them systematically Micro teaching (II) An approach where the educators divide the content among themselves and students sit with one educator before moving to the other Station teaching (III) A situation in a classroom where two teachers work on a class together (IV) When a teacher provides instruction to the entire class at (D) Cooperative teaching one time for an extended period of time Choose the correct answer from the options given below: (A)-(II), (B)-(III), (C)-(I), (D)-(IV) (A)-(IV), (B)-(II), (C)-(III), (D)-(I) (2)(A)-(IV), (B)-(I), (C)-(II), (D)-(III) (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (4)Options 1. 1 2.2 3.3 4.4 Question Type : MCQ Question ID : 5330723681 Option 1 ID: 53307214325 Option 2 ID : 53307214326 Option 3 ID: 53307214327 Option 4 ID: 53307214328 Status: Answered Chosen Option: 3 Q.40 What among the following can be ascribed to learning styles? **Kumar Education** (A) It is a way 'how' the student learns They are strengths and preferences of the learners for responding to the stimuli in the (B) environment Downloaded FREE from KumarEdu.com (C) It is 'What' the learner learns (D) It is a behavioural pattern developed for any new learning Choose the correct answer from the options given below: (1) (A) and (B) only (2) (A) and (C) only (A), (B), and (D) only (3)(4) (B), (C), and (D) only Options 1. 1 2.2 3.3 4.4 Question Type: MCQ

Question ID: 5330723682 Option 1 ID: 53307214329 Option 2 ID : 53307214330 Option 3 ID: 53307214331 Option 4 ID: 53307214332 Status: Answered



To record voice narration for your Microsoft PowerPoint presentation, your computer must have : Downloaded FREE from KumarEdu.com (A) Sound card (B) An internet connection (C) Speakers (D) An external video port (E) Microphone Choose the correct answer from the options given below: (1) (A), (C) and (E) only (2) (B) and (D) only (3)(A) and (E) only (B), (C) and (D) only Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID : 5330723708 Option 1 ID : 53307214433 Option 2 ID: 53307214434 Option 3 ID : 53307214435 Option 4 ID: 53307214436 Status: Answered Chosen Option: 3 Q.42 In computer networking, an IP version-6 is _ ____ times larger than an IP version-4 address. (2) 4 (3) 6 (4) 8 Options 1. 1 **Kumar Education** 2.2 3.3 Downloaded FREE from KumarEdu.com 4.4 Question Type: MCQ Question ID: 5330723706 Option 1 ID : 53307214425 Option 2 ID: 53307214426 Option 3 ID: 53307214427 Option 4 ID : 53307214428 Status: Answered Chosen Option: 1



Among the following which is correct in the context of Śabda Pramāṇa ?
Downloaded FREE from KumarEdu.com Q.43

- For, Jainas, a word signifies a particular (2)
- For old Nyāya, a word symbolizes universal only (3)
- For Vedantins, a word primarily means the class character of individuals (4)

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type: MCQ

Question ID : 5330723704 Option 1 ID : 53307214417 Option 2 ID : 53307214418 Option 3 ID : 53307214419 Option 4 ID: 53307214420

Status: Answered Chosen Option: 1

Q.44

Arrange the following ancient Indian Institutes from East to West direction.

- (A) Takshashila
- Nalanda (B)
- (C) Vikramshila
- (D) Shardapeeth

Choose the correct answer from the options given below:

- (A), (D), (C), (B)
- (2)(B), (C), (A), (D)
- (3)(D), (A), (B), (C)
- (C), (B), (D), (A) (4)

Options 1. 1

- 2.2
- 3 3
- 4. 4



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Question Type: MCQ

Question ID: 5330723715 Option 1 ID: 53307214461 Option 2 ID : 53307214462 Option 3 ID : 53307214463 Option 4 ID: 53307214464

Status: Answered

Which of the following is known as "One Nation One Student ID" card?

- Aadhar card (1)
- Pan card (2)
- (3)APAAR card
- Voter's ID card

Options 1. 1

- 2.2
- 3.3
- 4. 4

Question Type: MCQ

Question ID: 5330723718 Option 1 ID : 53307214473 Option 2 ID : 53307214474 Option 3 ID: 53307214475 Option 4 ID: 53307214476

Status: Answered

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Chosen Option: 3

Comprehension:

Read the following passage and answer the questions that follow:

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shuki Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No: 46

Q.46 Whereas the festival of Lord Jagannath is celebrated in many places in India and abroad, it is primarily associated with which city? Downloaded FREE from KumarEdu.com

- Bhuvaneswar (1)
- (2)Puri
- (3)Cuttack
- (4) Konark

Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 5330723721 Option 1 ID: 53307214481 Option 2 ID: 53307214482 Option 3 ID: 53307214483 Option 4 ID: 53307214484

Status: Answered Chosen Option: 2



Read the following passage and answer the questions that follow:

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Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No: 47

Q.47

What are the names of the deities who accompany Lord Jagannath in the Rath Yatra?

- Subhadra and Balabhadra
- Balabhadra and Shiva (2)
- Subhadra and Hidimba (3)
- Balabhadra and Hidimba

Options 1. 1

- 2.2
- 3.3
- 4. 4

Question Type : MCQ

Question ID : 5330723722 Option 1 ID: 53307214485 Option 2 ID : 53307214486 Option 3 ID : 53307214487 Option 4 ID: 53307214488

Status: Answered

Chosen Option: 1

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Read the following passage and answer the questions that follow:

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Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No: 48

Q.48

The Car Festival is conducted on a broad road that is called _____

- (1) Darpadalana
- (2) Ashadha
- (3) Badadanda
- (4) Taladhwaja

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type : MCQ

Question ID : <u>5330723724</u>
Option 1 ID : <u>53307214493</u>
Option 2 ID : <u>53307214494</u>
Option 3 ID : <u>53307214495</u>

Option 4 ID : <u>53307214496</u> Status : **Answered**

Chosen Option: 3



Read the following passage and answer the questions that follow:

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Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No: 49

Q.49

What is the name assigned to the journey wherein the deities return to the Jagannath Temple after nine days?

- (1) Rath Yatra
- (2) Wapsi Yatra
- (3) Maha Yatra
- (4) Bahuda Jatra

Options 1. 1

- 2.2
- 3.3
- 3. 3
 4. 4

Question Type : MCQ

Question ID : <u>5330723725</u> Option 1 ID : <u>53307214497</u> Option 2 ID : <u>53307214498</u> Option 3 ID : <u>53307214499</u>

Option 4 ID : <u>53307214500</u> Status : **Answered**

Chosen Option: 1

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Read the following passage and answer the questions that follow:

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Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No: 50

Q.50 The sacred journey of Lord Jagannath is traditionally undertaken onward to which divine shrine?

- (1) Jagannath Temple
- (2) Subhadra Temple
- (3) Balabhadra Temple
- (4) Gundicha Temple

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type : $\boldsymbol{\mathsf{MCQ}}$

Question ID : <u>5330723723</u> Option 1 ID : <u>53307214489</u> Option 2 ID : <u>53307214490</u>

Option 3 ID : <u>53307214491</u> Option 4 ID : <u>53307214492</u>

Status : Answered

Chosen Option: 4

Section: Computer Science and Applications

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Q.51 Let L (x, y) be the statement "x loves y" where the domain for both x and y consists of all people in the world. Use quantifiers to express "Joy is loved by everyone".

- (1) $\forall x \ L(x, \text{Joy})$
- (2) $\forall y \ L(Joy, y)$
- (3) $\exists y \forall x \ L(x, y)$
- (4) $\exists x \neg L(Joy, x)$

Options 1. 1

- 2. 2
- 3. 3
- 4 4

Question Type : MCQ

Question ID : <u>5330723761</u>

Option 1 ID : <u>53307214641</u> Option 2 ID : <u>53307214642</u>

Option 3 ID : 53307214643

Option 4 ID: 53307214644

Status : Answered



Q.52 In Software configuration management, what is the primary purpose of version control? Downloaded FREE from KumarEdu.com

To control the changes made to software

(2)To document user requirements

(3)To estimate project cost

(4) To design the software architecture

Options 1. 1

2.2

3 3

4. 4

Question Type: MCQ

Question ID: 5330723734 Option 1 ID: 53307214533 Option 2 ID: 53307214534 Option 3 ID: 53307214535 Option 4 ID: 53307214536 Status: Answered

Chosen Option: 1

Q.53 Match List - I with List - II.

> List - I (Algorithms)

List - II

(Characteristics)

(A) First Come First Served (FCFS)

- Each process is assigned a priority. (I)
- Shortest Job First (SJF) Ensures fair allocation of CPU time by assigning time
- (C) Round Robin (RR) (III) Processes are executed in the order they arrive.
- (D) Priority Scheduling Select the process for execution with smallest next Burst time.

Choose the correct answer from the options given below:

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (A)-(III), (B)-(IV), (C)-(II), (D)-(I) (3)
- (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

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Options 1. 1

2. 2

3 3

4. 4

Question Type: MCQ

Question ID: 5330723815 Option 1 ID: 53307214857 Option 2 ID : 53307214858 Option 3 ID: 53307214859 Option 4 ID: 53307214860 Status: Answered

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Q.54 Find the correct sequence of the storage device in ascending order based on their access time.

- (A) Registers
- (B) Magnetic Disk
- (C) Magnetic Tapes
- (D) Main memory
- (E) Optical Disk

Choose the correct answer from the options given below:

- (1) (B), (A), (D), (C), (E)
- (2) (B), (A), (E), (D), (C)
- (3) (C), (B), (A), (E), (D)
- (4) (C), (E), (B), (D), (A)

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type: MCQ

Question ID: <u>5330723770</u>
Option 1 ID: <u>53307214677</u>
Option 2 ID: <u>53307214678</u>
Option 3 ID: <u>53307214679</u>
Option 4 ID: <u>53307214680</u>

Status: Answered

Chosen Option: 4

Q.55

Arrange the following phases of database design in the correct order:

- (A) Physical Design
- (B) Conceptual Design
- (C) Logical Design
- (D) Requirement Analysis

Choose the correct answer from the options given below:

- (1) (B), (D), (A), (C)
- (2) (C), (A), (B), (D)
- (3) (D), (B), (C), (A)
- (4) (A), (D), (C), (B)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

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Question Type: MCQ

Question ID : <u>5330723766</u> Option 1 ID : <u>53307214661</u> Option 2 ID : <u>53307214662</u>

Option 3 ID : <u>53307214663</u> Option 4 ID : <u>53307214664</u>

Status : Answered

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Which of the following are typical activities in the software process lifecycle?

(A) Requirement Analysis

(A) Requirement Analysis

(B) System Design

(C) Code Refactoring

(D) Deployment

(E) Substructure

Choose the correct answer from the options given below:

(1) (A), (B), (C) Only

(2) (B), (C), (D) Only

(3) (A), (B), (D) Only

(4) (A), (D), (E) Only

Options 1. 1

2. 2

3. 3

4.4

Question Type : MCQ

Question ID : 5330723794
Option 1 ID : 53307214773
Option 2 ID : 53307214774
Option 3 ID : 53307214775
Option 4 ID : 53307214776
Status : Answered

Chosen Option: 3

Q.57 Consider the following statements regarding combinational and sequential circuits.

(A) Output of combinational circuits depends on the only current input.

(B) Output of combinational circuit depends on the both current input and previous output.

(C) Output of sequential circuit depends on the current input.

(D) Output of sequential circuit depends on both current input and previous output.

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Choose the correct answer from the options given below:

(1) (A) and (C) Only

(2) (A) and (D) Only(3) (B) and (D) Only

(4) (B) and (C) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID: <u>5330723798</u> Option 1 ID: <u>53307214789</u> Option 2 ID: <u>53307214790</u>

Option 3 ID : <u>53307214791</u> Option 4 ID : <u>53307214792</u>

Status : Answered

Chosen Option: 2

Which of the following relations can not be decomposed in to BCNF with a lossless join and Downloaded FREE from KumarEdu.com

dependency-preserving decomposition? (1) R (V, W, X, Y, Z) $\{VW \rightarrow X, WX \rightarrow V, VX \rightarrow W, W \rightarrow Y, Y \rightarrow Z\}$

- R (V, W, X, Y) $\{VW \rightarrow W, X \rightarrow Y\}$ (2)
- R (V, W, X, Y) $\{VW\rightarrow X, X\rightarrow VY\}$ (3)R (V, W, X, Y, Z) $\{VW \rightarrow X, X \rightarrow Y, Y \rightarrow Z, Z \rightarrow V\}$
- Options 1. 1
 - 2. 2
 - 3.3
 - 4.4

Question Type: MCQ

Question ID: 5330723755 Option 1 ID: 53307214617 Option 2 ID: 53307214618

Option 3 ID : 53307214619 Option 4 ID: 53307214620

Status: Answered

Chosen Option: 2

Q.59 A coin is tossed successively three times. Find the Probability (P), Event (E), Sample space (S) of getting exactly one head or two heads, where n is number of occurrence.

- (A) n(S) = 8 and n(E) = 4
- (B) n(E) = 6 and n(S) = 8
- (C) $P(E) = \frac{3}{4}$
- (D) $P(E) = \frac{1}{2}$

Choose the correct answer from the options given below:

- (1) (A), (B), (C) and (D)
- (2) (B) and (C) Only
- (3) (A) and (D) Only
- (C) and (D) Only (4)
- Options 1. 1
 - 2. 2
 - 3.3
 - 4.4



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Question Type: MCQ

Question ID : 5330723782

Option 1 ID : 53307214725

Option 2 ID : 53307214726 Option 3 ID : 53307214727

Option 4 ID: 53307214728 Status: Answered

Kumar Education

Q.60

A CPU has a 5-stage pipeline with the following stages Fetch (F), Decode (D), Execute (E), Memory (M) and Write-back (W). Each stage takes one clock cycle to complete. Assume there are no pipeline dead FREE from KumarEdu.com stalls and the pipeline is initially empty. How many clock cycles are required to complete the execution of 10 instructions?

- (1) 10
- (2) 14
- (3) 15 (4) 19

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type : MCQ

Question ID: <u>5330723764</u>
Option 1 ID: <u>53307214653</u>
Option 2 ID: <u>53307214654</u>
Option 3 ID: <u>53307214655</u>
Option 4 ID: <u>53307214656</u>

Status : **Answered** Chosen Option : **2**

Q.61 Arrange the following steps in the correct order to solve the Knapsack problem using Dynamic Programming.

- (A) Define the base case when the capacity is zero (0) or no items are left to consider
- (B) Compute the maximum value that can be obtained using items up to the i-th item and a knapsack capacity of 0
- (C) Identify subproblems and their dependencies based on items weights and values
- (D) Initialize a table to store results of subproblems
- (E) Iterate through each item and each possible Capacity to fill the table

Choose the correct answer from the options given below:

- (1) (C), (D), (A), (E), (B)
- (2) (D), (C), (A), (E), (B)
- (3) (A), (C), (D), (E), (B)
- (4) (D), (A), (C), (E), (B)

Options 1. 1

- 2. 2
- 3. 3
- 4.4



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Question Type : MCQ

Question ID: <u>5330723773</u>
Option 1 ID: <u>53307214689</u>
Option 2 ID: <u>53307214690</u>
Option 3 ID: <u>53307214691</u>
Option 4 ID: <u>53307214692</u>

Status : Answered

Q.62

40 software professionals were interviewed for a job. 25 knew PYTHON 20 knew JAVA and 7 knew neither language. How many knew both languages?

(1) 20
(2) 53
(3) 10
(4) 88

Question Type: MCQ
Question ID: 5330723759
Option 1 ID: 53307214633
Option 2 ID: 53307214634

Option 3 ID : <u>53307214635</u> Option 4 ID : <u>53307214636</u> Status : **Answered**

Chosen Option: 3

Q.63 Arrange the following steps in a proper sequence for the process of training a neural network.

- (A) Weight initialization
- (B) Feed forward
- (C) Back Propagation
- (D) Loss Calculation
- (E) Weight Update

Choose the correct answer from the options given below:

- (1) (A), (B), (D), (C), (E)
- (2) (D), (B), (A), (C), (E)
- (3) (A), (C), (D), (B), (E)
- (4) (E), (C), (B), (D), (A)

Options 1. 1

Options 1. 1 2. 2 3. 3 4 4

- 2. 2
- 3. 3
- 4. 4



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Question Type : MCQ

Question ID: <u>5330723779</u>
Option 1 ID: <u>53307214713</u>
Option 2 ID: <u>53307214714</u>
Option 3 ID: <u>53307214715</u>
Option 4 ID: <u>53307214716</u>
Status: Answered

Host A (on TCP/IPv4 Networks) send an IP Datagram D to host B (also on TCP/IPv4 network). Assume that no error occured during transmission of D, when D reaches B. Which of following ed FREE from KumarEdutcom header field may differ from that of original datagram D?

- (A) TTL
- (B) Checksum
- (C) Fragment offset
- (D) Source IP
- (E) Destination IP

Choose the correct answer from the options given below:

- (1) (A) and (B) Only
- (2) (A), (B) and (C) Only
- (3) (A), (B), (C) and (D) Only
- (4) (A), (B), (C) and (E) Only

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type: MCQ

Question ID: 5330723790 Option 1 ID : 53307214757 Option 2 ID : 53307214758 Option 3 ID: 53307214759 Option 4 ID: 53307214760

Status: Answered

Chosen Option: 1

Q.65

Which of the following are context free language?

- (A) $\{w^i x^j y^k z^l | i+k=j+l, \text{ where } i, j, k, l \ge 0\}$
- (B) $\{w^i x^j y^k z^l | i=j \text{ and } k=l, \text{ where } i, j, k, l \ge 0\}$ (C) $\{w^i x^j y^k z^l | i=j=k \text{ and } k \ne l, \text{ where } i, j, k, l \ge 0\}$ | Kumar Education
- (D) $\{w^i x^j y^k z^l | i=j=k+l, \text{ where } i, j, k, l \ge 0\}$ Downloaded FREE from KumarEdu.com
- $\{w^i x^j y^k z^l | i=j=l \text{ and } k\neq l, \text{ where } i, j, k, l \geq 0\}$

Choose the correct answer from the options given below:

- (A), (B) Only
- (B), (C) Only (2)
- (C), (D) Only (3)
- (D), (E) Only (4)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type: MCQ

Question ID: 5330723781 Option 1 ID: 53307214721 Option 2 ID: 53307214722 Option 3 ID : 53307214723 Option 4 ID: 53307214724

Status: Answered

```
Q.66
      Consider the following code:
                                                      Downloaded FREE from KumarEdu.com
      #include<stdio.h>
      void f1(char *x, char *y) {
            char t_1; t_1 = x; x = y; y = t_1;
      void f2(char **x, char **y) {
            char t_1; t_1 = x; x = y; y = t_1;
      int main()
            char *a = "ONE", *b = "TWO";
            f1(a, b); printf("%s %s", a, b);
            f2(&a, &b); printf("%s %s", a, b);
            return 0;
      What will be the output of the above code?
            ONE TWO TWO ONE
      (2)
            TWO ONE ONE TWO
      (3)
           ONE TWO ONE TWO
            TWO ONE TWO ONE
      (4)
Options 1. 1
     2.2
     3.3
     4. 4
                                                            Question Type : MCQ
                                                      Downlo Question ID: 5330723743 n KumarEdu com
                                                              Option 1 ID: 53307214569
                                                              Option 2 ID : 53307214570
                                                              Option 3 ID : 53307214571
                                                              Option 4 ID: 53307214572
                                                                 Status: Answered
                                                            Chosen Option: 3
```

Q.67 Which of the following C++ statements correctly declares an abstract class? Downloaded FREE from KumarEdu.com

class A { virtual void show() = 0; };

class A { void show() = 0; }; (2)

(3)class A { void show() { } ; };

class A $\{ \text{show}() = 0; \};$ (4)

Options 1. 1

2. 2

3.3

4.4

Question Type: MCQ

Question ID: 5330723748 Option 1 ID: 53307214589 Option 2 ID : 53307214590 Option 3 ID: 53307214591 Option 4 ID: 53307214592

Status: Answered

Chosen Option: 3

Arrange the following Language Classes in ascending order according to their expressive power, as defined by Chomsky hierarchy:

(A) Context-free languages

(B) Context-sensitive languages

(C) Regular languages

(D) Unrestricted Grammars

Choose the correct answer from the options given below:

(1) (C), (A), (B), (D)

(2)(C), (A), (D), (B)

(A), (C), (B), (D) (3)

(A), (D), (B), (C) (4)

Options 1. 1

2. 2

3.3

4.4

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Question Type: MCQ

Question ID : 5330723777 Option 1 ID: 53307214705 Option 2 ID: 53307214706 Option 3 ID: 53307214707 Option 4 ID : 53307214708 Status: Answered



Q.69 Match List - I with List - II. List - I

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(Recurrence Relations)

(A) T(n) = 2T(n/2) + n

(B) T(n) = T(n/2) + 1(C) T(n) = 2T(n/2) + 1

(D) T(n) = T(n-1) + 1

(Complexity)

List - II

 $T(n) = \theta(n \log n) \{ \text{exact solution} \}$

(II) $O(n^2)$

(III) $T(n) = \theta(n)$ {exact solution}

(IV) O(n)

Choose the correct answer from the options given below:

(1) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

(2)(A)-(IV), (B)-(II), (C)-(I), (D)-(III)

(3) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)

(4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

Options 1. 1

2.2

3. 3 4.4

Question Type: MCQ

Question ID : 5330723803 Option 1 ID: 53307214809 Option 2 ID : 53307214810 Option 3 ID: 53307214811

Option 4 ID: 53307214812 Status: Answered

Kumar Education

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Chosen Option: 1

Q.70

Arrange the following steps of file handling in C in the correct order:

(A) Close the file

Read from or write to the file

Open the file (C)

(D) Check for error

Choose the correct answer from the options given below:

(1)(A), (C), (D), (B)

(D), (B), (C), (A) (2)

(3)(C), (D), (B), (A)

(4) (B), (D), (A), (C)

Options 1. 1

2. 2

3.3 4.4

Question Type : MCQ

Question ID: 5330723769

Option 1 ID: 53307214673

Option 2 ID: 53307214674

Option 3 ID: 53307214675

Option 4 ID : 53307214676

Status: Answered



Q.71 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II Representation of bits Transport layer (A) (I) Physical Address Physical layer (B) (II)(C) Logical Address (III) Network layer (D) Segmentation and reassembly (IV) Data link layer Choose the correct answer from the options given below: (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (2)(A)-(II), (B)-(IV), (C)-(III), (D)-(I) (3)(A)-(III), (B)-(II), (C)-(IV), (D)-(I) (A)-(I), (B)-(IV), (C)-(III), (D)-(II) Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID : 5330723809 Option 1 ID: 53307214833 Option 2 ID: 53307214834 Option 3 ID: 53307214835 Option 4 ID: 53307214836 Status: Answered Chosen Option: 2 **Kumar Education** Q.72 Fifth normal form is concerned with: Join Dependency (1)Downloaded FREE from KumarEdu.com (2)Domain-Key Multivalued dependency (3)Functional dependency (4) Options 1. 1 2.2 3.3 4.4 Question Type : MCQ Question ID: 5330723749 Option 1 ID : 53307214593 Option 2 ID: 53307214594 Option 3 ID: 53307214595 Option 4 ID: 53307214596 Status: Answered Chosen Option: 2



Q.73 Match List - I with List - II. Downloaded FREE from KumarEdu com List - I List - II HTML (A) (I) Allow for dynamic and interactive web pages. (B) DHTML (II) Defines the structure of web pages. (C) XML (III) Object-oriented programming language for web applications.

(D) JAVA (IV) Used for data storage and transport. Choose the correct answer from the options given below:

(1) (A)-(I), (B)-(III), (C)-(II), (D)-(IV) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(3)(A)-(II), (B)-(I), (C)-(IV), (D)-(III) (A)-(III), (B)-(I), (C)-(IV), (D)-(II) (4)

Options 1. 1

2. 2

3.3

4.4

Question Type: MCQ

Question ID : 5330723814 Option 1 ID: 53307214853 Option 2 ID : 53307214854 Option 3 ID : 53307214855 Option 4 ID: 53307214856 Status: Answered

Chosen Option: 3

Q.74 Consider the following relations on {1, 2, 3, 4}. Which of the following relations are reflexive?

(A) $R_1 = \{(1, 1), (1, 2), (2, 1), (2, 2), (3, 4), (4, 1), (4, 4)\}$

(B) $R_2 = \{(1, 1), (1, 2), (2, 1)\}$

(C) $R_3 = \{(1, 1), (1, 2), (1, 4), (2, 1), (2, 2), (3, 3), (4, 1), (4, 4)\}$

(D) $R_4 = \{(2, 1), (3, 1), (3, 2), (4, 1), (4, 2), (4, 3)\}$

(E) $R_5 = \{(1, 1), (1, 2), (1, 3), (1, 4), (2, 2), (2, 3), (2, 4), (3, 3), (3, 4), (4, 4)\}$

Choose the **correct** answer from the options given below :

(1) (A), (B) and (C) Only

(2) (A), (D) and (E) Only

(3) (D) and (E) Only

(4) (C) and (E) Only

Options 1. 1

2.2

3.3 4.4

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Question Type : MCQ

Question ID: 5330723799 Option 1 ID : 53307214793 Option 2 ID : 53307214794 Option 3 ID: 53307214795 Option 4 ID: 53307214796

Status: Answered



Q.75 Consider the function in C code: Downloaded FREE from KumarEdu.com Cal(a, b) { if (b! = 1) { if (a! = 1) { printf("*"); Cal(a/2, b); else { b = b - 1: Cal(10, b); }} How many times * is going to be printed, if the function is called with Cal(10, 10);? (1)23 (2)(3)24 (4) 27 Options 1. 1 2.2 3.3 4. 4 Question Type: MCQ Question ID: 5330723733 Option 1 ID: 53307214529 Option 2 ID : 53307214530 Option 3 ID: 53307214531 Option 4 ID : 53307214532 Status: Answered Chosen Option: 1 Which of the following languages can be recognized by Non-Deterministic Finite Automata (NFA) umar Education but cannot be recognized by Deterministic Finite Automata (NFA) Q.76 but cannot be recognized by Deterministic Finite Automata (DFA)? (A) $L_1 = \{w \in \{0, 1\}^* \mid \text{the length of } w \text{ is even}\}$ Downloaded FREE from KumarEdu.com (B) $L_2 = \{w \in \{0, 1\}^* \mid \text{the length of } w \text{ is odd}\}$ (C) $L_3 = \{w \in \{0, 1\}^* \mid \text{all 0's come before all 1's in w} \}$ (D) $L_4 = \{w \in \{0, 1\}^* \mid w \text{ contains an equal number of } 0'\text{ s and } 1'\text{ s}\}$ (E) $L_5 = \{w \in \{0, 1\}^* \mid all \ 1's \text{ come before all 0's in } w\}$ Choose the correct answer from the options given below: (1) (A) and (B) Only (B) and (C) Only (2)(3) (C) and (D) Only (4)(D) and (E) Only Options 1. 1 2. 2 3.3 4.4 Question Type : MCQ Question ID : 5330723788 Option 1 ID: 53307214749 Option 2 ID : 53307214750 Option 3 ID : 53307214751 Option 4 ID: 53307214752 Status: Answered Chosen Option: 2

```
Kumar Education
 Q.77
      Consider following C program:
                                                       Downloaded FREE from KumarEdu.com
      #include<stdio.h>
      int main()
        int x[] = \{2, 4, 6, 8, 10\};
        int a, b = 0, y = x + 4;
        for(a = 0; a < 5; a++)
            b = b + (*y - a) - *(y - a);
            printf("%d\n", b);
            return 0;
      What will be the output of the above C program?
      (1)
      (2)
            6
            8
      (3)
            10
      (4)
Options 1. 1
     2. 2
     3. 3
     4.4
                                                                Kumar Education
                                                              Question Type: MCQ
                                                       Downloquestion ID: 5330723744 KumarEdu.com
                                                                Option 1 ID: 53307214573
                                                                Option 2 ID: 53307214574
                                                                Option 3 ID : 53307214575
                                                                Option 4 ID: 53307214576
                                                                   Status: Answered
                                                             Chosen Option: 2
```



Q.78

- (A) In IPv4 addressing, a block of address can be define as x.y.z.t/n in which x.y.z.t define one of the address and /n define the mask

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- (B) The first address in the block can be found by setting the rightmost 32-n bits to 0s
- (C) Address of class C is used for multicast communication
- (D) There are five classes in IPv4 address
- (E) Supernetting combine several networks into one large network

Choose the correct answer from the options given below:

- (1) (A), (B) and (C) Only
- (2) (A), (B), (D) and (E) Only
- (3) (A), (C), (D) and (E) Only
- (4) (C), (D) and (E) Only

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type : MCQ

Option 1 ID : 5330723789

Option 1 ID : 53307214753

Option 2 ID : 53307214754

Option 3 ID : 53307214755

Option 4 ID : 53307214756

Status : Answered

Chosen Option: 2



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```
Q.79
       #include<stdio.h>
                                                                 Downloaded FREE from KumarEdu.com
       void main()
               int arr[] = \{1, 2, 3, 4, 5\};
               int *p = arr;
               printf("%d", *p++);
               printf("%d", *(p+1));
       Find the output of the above code?
              1, 2
       (1)
              1, 3
       (2)
             2, 3
       (3)
              1, 4
       (4)
Options 1. 1
      2.2
      3.3
      4.4
                                                                         Question Type: MCQ
                                                                           Question ID : 5330723730
                                                                           Option 1 ID: 53307214517
                                                                           Option 2 ID: 53307214518
                                                                           Option 3 ID : 53307214519
                                                                           Option 4 ID: 53307214520
                                                                               Status: Answered
                                                                 Down Chosen Option: 3 E from KumarEdu.com
 Q.80
       Which of the following is correct way to declare a functional pointer in C?
           int *func (int, int);
       (2)
            int (*func) (int, int);
            int (func*) (int, int);
       (3)
            int *func* (int, int);
       (4)
Options 1. 1
      2. 2
      3. 3
      4.4
                                                                         Question Type: MCQ
                                                                           Question ID: 5330723745
                                                                           Option 1 ID: 53307214577
                                                                           Option 2 ID : 53307214578
                                                                           Option 3 ID : 53307214579
                                                                           Option 4 ID: 53307214580
                                                                               Status: Answered
                                                                        Chosen Option: 2
```

Q.81 Out the following steps in the proper sequence for simplifying a Boolean function using a Karnaugh Downloaded FREE from KumarEdu.com (A) Identify and group the largest possible cluster of 1's (B) Draw the K-map for the given Boolean function (C) Write the simplified Boolean expression from the grouped clusters (D) Transfer the truth table values to the K-map Choose the correct answer from the options given below: (1) (B), (D), (A), (C) (2) (D), (B), (A), (C) (3) (B), (A), (D), (C) (4) (A), (B), (C), (D) Options 1. 1 2. 2 3.3 4 4 Question Type: MCQ Question ID: 5330723767 Option 1 ID : 53307214665 Option 2 ID : 53307214666 Option 3 ID: 53307214667 Option 4 ID: 53307214668 Status: Answered Chosen Option: 4 Q.82 Consider the Grammar: $T \rightarrow Ox$ $Q \rightarrow RS$ $R \rightarrow y \mid \epsilon$ **Kumar Education** $S \rightarrow z \mid \varepsilon$ Here x, y, z are terminals and T, Q, R, S are non terminals. What will be the follow set of the non terminal Rownloaded FREE from KumarEdu.com (1) $\{x, y\}$ (2) $\{y, z\}$ $\{z, x\}$ (3)(4) {3} Options 1. 1 2. 2 3.3 4. 4 Question Type : MCQ Question ID : 5330723727 Option 1 ID: 53307214505 Option 2 ID : 53307214506 Option 3 ID: 53307214507 Option 4 ID: 53307214508

Status: Answered



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Q.83 Consider the Grammar:

 $S \rightarrow A$

 $A \rightarrow B$ | id

 $B \rightarrow B, A \mid A$

If $I_0 = CLOSURE(\{[S \rightarrow .A]\})$ then, how many items be in the set for $GOTO(I_0, \$)$

(1) 3

(2) 4

(3) 5

(4) 6

Options 1. 1

2. 2

3.3

4.4

Question Type : MCQ

Question ID: 5330723726
Option 1 ID: 53307214501
Option 2 ID: 53307214502
Option 3 ID: 53307214503
Option 4 ID: 53307214504

Status : Answered

Chosen Option: 3

Q.84

Arrange the following phases of the Agile process in the correct sequence :

(A) Design

(B) Release

(C) Testing

(D) Development

(E) Planning

Choose the correct answer from the options given below:

(1) (A), (B), (D), (E), (C)

(2) (A), (D), (E), (B), (C)

(3) (E), (A), (D), (C), (B)

(4) (E), (D), (A), (C), (B)

Options 1. 1

2. 2

3. 3

4.4

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Question Type : MCQ

Question ID : <u>5330723771</u>
Option 1 ID : <u>53307214681</u>
Option 2 ID : <u>53307214682</u>
Option 3 ID : <u>53307214683</u>

Option 4 ID : <u>53307214684</u> Status : **Answered**

Chosen Option: 3

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Q.85

Which of the following statements about pointers in C are TRUE from KumarEdu.com

- (A) Pointers can be used to access array elements
- Pointers can store the address of another pointer
- (C) Pointers are automatically deferenced in expression
- (D) Pointers cannot be used to access structure members

Choose the correct answer from the options given below:

- (A) and (C) Only
- (A) and (B) Only (2)
- (B) and (C) Only (3)
- (C) and (D) Only

Options 1. 1

- 2 2
- 3. 3
- 4. 4

Question Type: MCQ

Question ID: 5330723796 Option 1 ID: 53307214781 Option 2 ID: 53307214782 Option 3 ID : 53307214783 Option 4 ID: 53307214784

Status: Answered

Chosen Option: 2

0.86Arrange the following stages of a Turing Machine (TM) operation in the correct order as they occur during computation.

- (A) Writing a symbol on the tape
- (B) Moving the tape head left to right
- (C) Reading a symbol from the tape
- (D) Transitioning to a new state based on the current state and symbol read
- (E) Halting and accepting or rejecting the input

Choose the correct answer from the options given below:

- (1) (C), (A), (B), (D), (E)
- (2)(C), (B), (A), (D), (E)
- (3) (C), (D), (A), (B), (E)
- (4) (C), (D), (B), (A), (E)

Options 1. 1

- 2. 2
- 3.3
- 4 4

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Question Type: MCQ

Question ID: 5330723775 Option 1 ID: 53307214697 Option 2 ID: 53307214698 Option 3 ID : 53307214699 Option 4 ID : 53307214700

Status: Answered



Q.87

Translate $\forall x \exists y (x < y)$ in English. Consider domain as a real number for both the variables.

- (1) For all real numbers x, there exists a real number y such that x is less than y no added FREE from KumarEdu.com
- (2) For every real numbers y, there exists a real number x such that x is less than y
- (3) For some real numbers x, there exists a real number y such that x is less than y
- (4) For each and every real numbers x and y, x is less than y

Options 1. 1

- 2. 2
- 3.3
- 4. 4

Question Type: MCQ

Question ID : <u>5330723762</u>
Option 1 ID : <u>53307214645</u>
Option 2 ID : <u>53307214646</u>
Option 3 ID : <u>53307214647</u>
Option 4 ID : <u>53307214648</u>

Status : Answered

Chosen Option : 1

Q.88 If a software project has 2000 lines of code (LOC) and the average productivity rate is 10 LOC per person-hour, how many person-hours are required to complete the project?

- 1) 100
- (2) 150
- (3) 200
- (4) 250

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type: MCQ question Question ID: 5330723735

Downlo Option 1 ID: 53307214537 KumarEdu.com

Option 2 ID : <u>53307214538</u> Option 3 ID : <u>53307214539</u> Option 4 ID : <u>53307214540</u> Status : **Answered**

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Q.89 Consider a CSMA/CD network that transmits data at the rate of 100 Mbps over a 1 Kilometre cable with no repeater. If the minimum frame size required for this network is 1250 bytes, what is 1250 bytes, which is

- (1) 8000
- (2) 16000
- (3) 12000
- (4) 20000

Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type: MCQ

Question ID : <u>5330723742</u> Option 1 ID : <u>53307214565</u> Option 2 ID : <u>53307214566</u>

Option 3 ID : <u>53307214567</u> Option 4 ID : <u>53307214568</u>

Status : Answered

Chosen Option: 3

Q.90 Match List - I with List - II.

List - I

(computing systems)

- (A) Half Adder
- (B) Decoder
- (C) Register
- (D) Main memory
- Choose the correct answer from the options given below:
- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(IV), (B)-(II), (C)-(III), (D)-(I) (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (4) Options 1. 1
 - 2 2
 - 3.3
 - 4. 4

List - II

(working/output)

- (I) Has n input and 2ⁿ output
- (II) CPU Storage Unit
- (III) Used to store program at runtime
- (IV) 2-bit addition circuit



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Question Type : MCQ

Question ID : 5330723806

Option 1 ID : 53307214821

Option 2 ID : <u>53307214822</u> Option 3 ID : <u>53307214823</u>

Option 4 ID : <u>53307214824</u>

Status: Answered

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Q.91 What is SQL primarily used for in the context of relational databases? Downloaded FREE from KumarEdu.com

To design user interfaces

- (2)To create and manipulate databases
- To display data on web pages (3)
- To format printed reports

Options 1. 1

2. 2

3. 3

4.4

Question Type: MCQ

Question ID : 5330723751 Option 1 ID: 53307214601 Option 2 ID: 53307214602 Option 3 ID : 53307214603 Option 4 ID: 53307214604

Status: Answered

Chosen Option: 2

Q.92

How does a relational database ensure data integrity?

- By encrypting all data stored
- By enforcing rules defined in the schema
- By compressing data for efficient storage
- By allowing unrestricted access to all users

Options 1. 1

2. 2

3. 3

4.4

Kumar Education

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Question Type: MCQ

Question ID : 5330723750 Option 1 ID: 53307214597 Option 2 ID : 53307214598 Option 3 ID: 53307214599 Option 4 ID: 53307214600

Status: Answered

Chosen Option: 1

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Q.93 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (characteristics) (operating system concepts) (A) Paging (I) Evicts least recently used process (B) LRU (Least Recently Used) (II) Extends physical memory (C) C-SCAN (III) Logical to physical mapping (D) Virtual Memory (IV) Circular disk access Choose the correct answer from the options given below: (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II) (2)(A)-(III), (B)-(I), (C)-(IV), (D)-(II) (3)(A)-(I), (B)-(III), (C)-(IV), (D)-(II) (A)-(I), (B)-(IV), (C)-(III), (D)-(II) Options 1. 1 2.2 3.3 4. 4 Question Type : MCQ Question ID: 5330723813 Option 1 ID: 53307214849 Option 2 ID : 53307214850 Option 3 ID: 53307214851 Option 4 ID: 53307214852 Status: Answered Chosen Option: 2 Q.94 A class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet? 1022 **Kumar Education** 1023 (2)(3) 2046 (4) 2047 Downloaded FREE from KumarEdu.com Options 1. 1 2. 2 3.3 4.4 Question Type : MCQ Question ID: 5330723740 Option 1 ID : 53307214557 Option 2 ID : 53307214558 Option 3 ID: 53307214559 Option 4 ID: 53307214560 Status: Answered Chosen Option: 2



Q.95 Which of the following statements are TRUE about mutual exclusion in concurrent programming?

- (A) Mutual exclusion ensures that only one process can be in a critical section at any given time of FREE from KumarEductom
- (B) Mutual exclusion are designed to prevent conflicts and ensure that only one process can access shared resources at a time.
- (C) Mutual exclusion can use various algorithms to ensure that processes do not enter the critical section simultaneously.
- (D) Mutual exclusion allows multiple processes to access the critical section simultaneously to improve performance.

Choose the ${\bf correct}$ answer from the options given below :

- (1) (A), (B), (C) Only
- (2) (B), (C), (D) Only
- (3) (B), (D), (A) Only
- (4) (A), (C), (D) Only

Options 1. 1

- 2. 2
- 3 3
- 4.4

Question Type : MCQ

Question ID : <u>5330723787</u> Option 1 ID : <u>53307214745</u> Option 2 ID : <u>53307214746</u>

Option 3 ID : <u>53307214747</u>

Option 4 ID : <u>53307214748</u> Status : **Answered**

Chosen Option: 1

Consider the transactions T_1 , T_2 , T_3 and the schedules S_1 and S_2 given below.

 $T_1 : r_1(x); r_1(z); w_1(z)$

 $T_2 : r_2(y); r_2(z); w_2(z)$

 $T_3 : r_3(y); r_3(x); w_3(y)$

 $S_1 : r_1(x); r_3(y); r_3(x); r_2(y); r_2(z); w_3(y); w_3(z);$

 $r_1(z); w_1(x); w_1(z)$

 $S_2 : r_1(x); r_3(y); r_2(y); r_3(x); r_1(z); r_2(z); w_3(y);$

 $w_1(x); w_2(z); w_1(z)$

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Which one of the following statements about the schedules is TRUE?

- (1) Only S₁ is conflict-serializable
- (2) Only S2 is conflict-serializable
- (3) Both S_1 and S_2 are conflict-serializable
- (4) Neither S₁ nor S₂ is conflict-serializable

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : <u>5330723757</u>

Option 1 ID : <u>53307214625</u> Option 2 ID : <u>53307214626</u>

Option 3 ID : <u>53307214627</u> Option 4 ID : <u>53307214628</u>

Status : Answered

Q.97 Consider a relation schema R = (U, V, W, X, Y, Z), on which the following functional dependencies Downloaded FREE from KumarEdu.com $\{U\rightarrow V,\ VW\rightarrow X,\ Y\rightarrow W;\ X\rightarrow U\}$ The candidate keys of R are: (1)UY, VY UY, VY, XY (2)UYZ, VYZ, VWZ (3) UYZ, VYZ, XYZ (4) Options 1. 1 2.2 3.3

Question Type : MCQ

Question ID : <u>5330723754</u>
Option 1 ID : <u>53307214613</u>
Option 2 ID : <u>53307214614</u>
Option 3 ID : <u>53307214615</u>
Option 4 ID : <u>53307214616</u>
Status : **Answered**

Chosen Option : 4

Q.98 Match List - I with List - II.

4.4

List - I
(A) Dijkstra's Algorithms

List - II

 (I) Find the shortest path between all pairs of vertices in a graph with positive or negative edge weights.

(B) Floyd-Warshall Algorithms

(II) Finds the shortest path in a weighted graph with non-negative edge weights.

(C) Bellman-frod Algorithms

(III) Sorts elements by repeatedly moving them post neighboring elements that are smaller.(IV) Determines the strongest connected components in

(D) Prim's Algorithms (IV) Determines the strongest connected compone a directed graph.

Choose the correct answer from the options given below:

(1) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

(2) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

(3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

 $(4) \quad \ (A)\text{-}(III), \ (B)\text{-}(II), \ (C)\text{-}(IV), \ (D)\text{-}(I)$

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Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID: <u>5330723810</u>
Option 1 ID: <u>53307214837</u>
Option 2 ID: <u>53307214838</u>
Option 3 ID: <u>53307214839</u>
Option 4 ID: <u>53307214840</u>
Status: Answered

In a token ring network the transmission speed is 10^7 bps and the propagation speed is $200 \text{ m/}\mu\text{s}$. Downloaded FREE from KumarEdu com The 1-bit delay in this network is equivalent to _ 20 m (1) 30 m (2)50 m (3)(4) 40 m Options 1. 1 2. 2 3.3 4 4 Question Type: MCQ Question ID : 5330723741 Option 1 ID : 53307214561 Option 2 ID: 53307214562 Option 3 ID : 53307214563 Option 4 ID: 53307214564 Status: Answered Chosen Option: 1 Q.100 Which of the following best describes the structure of a relational database? Data organized into tables with rows and columns (2)Data organized into files and folders Data organized into a hierarchical tree structure (3)Data organized into a network of interconnected nodes Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Download ID : <u>5330723752</u> KumarEdu.com Option 1 ID : 53307214605 Option 2 ID: 53307214606 Option 3 ID: 53307214607 Option 4 ID : <u>53307214608</u> Status: Answered Chosen Option: 1



Q.101 Which of the following properties correctly describe a Regular Grammar?

- (A) All production rules are of the form A→xB or A→x, where A and B are non terminal symbols ded FREE from KumarEdu.com and x is a terminal symbol.
- (B) Regular grammars are more powerful than context-free grammars and can express any type of language.
- (C) There is a direct correspondence between regular grammar and finite automata.
- (D) Regular grammars can generate languages that are not recognised by any type of automata.

Choose the correct answer from the options given below:

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (C) and (D) Only
- (4) (A) and (C) Only

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type: MCQ

Question ID : <u>5330723791</u>
Option 1 ID : <u>53307214761</u>
Option 2 ID : <u>53307214762</u>
Option 3 ID : <u>53307214763</u>
Option 4 ID : <u>53307214764</u>

Status: Answered

Chosen Option: 2

Q.102

In a schema R(A, B, C, D, E, F, G, H), each field of R contains only atomic values. $F = \{CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG\}$ is a set of functional dependencies so that F + is exactly the set of FDs that holds R. The relation R is:

- (1) In 1NF, but not in 2NF
- (2) In 2NF, but not in 3NF
- (3) In 3NF, but not in BCNF
- (4) In BCNF

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



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Question Type : MCQ

Question ID: <u>5330723756</u>
Option 1 ID: <u>53307214621</u>
Option 2 ID: <u>53307214622</u>
Option 3 ID: <u>53307214623</u>

Option 4 ID : <u>53307214624</u> Status : **Answered**

Chosen Option: 3

Q.103



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```
What is the output of code given below:
     #include<iostream.h>
     using namespace std;
     class Base {
     public:
     Base(){
             cout<<"Base Const";
     virtual ~Base()
              cout<<"Base dest";
     class derived : public Base {
     public:
     Derived() {
                  cout<<"Derived Const";
     ~Derived() {
                 cout<<"Derived dest";
                 1;
     int main()
           Base *b = new Derived();
           delete b;
           return 0;
```

```
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```

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- (1) Base Const Derived Const Derived dest Base dest
- (2) Base Const Derived Const Base dest Derived dest
- (3) Derived Const Base Const Base dest Derived dest
- (4) Base Const Derived Const Base dest

Options 1. 1

2. 2

3. 3

4. 4

Question Type: MCQ
Question ID: 5330723747
Option 1 ID: 53307214585
Option 2 ID: 53307214586
Option 3 ID: 53307214587
Option 4 ID: 53307214588
Status: Answered



Q.104

Match List - I with List - II.

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List - II

List - I

- (IP Address) (Class)
- (A) 10.20.30.40 (I) Class E 210.20.30.3 Class B (B) (II)
- 180.30.100.10 (III) Class A (C) 252.5.15.11 (IV) Class C (D)

Choose the correct answer from the options given below:

- (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (2)(A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Options 1. 1

- 3.3
- 4.4

Question Type: MCQ

Question ID: 5330723804 Option 1 ID: 53307214813 Option 2 ID: 53307214814

Option 3 ID: 53307214815 Option 4 ID: 53307214816

Status: Answered Chosen Option: 3 Education

paded FREE from KumarEdu.com Q.105 Two computers A and B are configured as follows: A has IP address 203.197.2.53 and subnet mask 255.255.128.0, B has IP address 203.197.75.201 and subnet mask 255.255.192.0. What one of the following statement is true?

- (1) A and B both assume they are on the same network
- (2) B assumes, A is on same network, A assumes B is on different network
- A assumes, B is on same network, but B assumes, A is on a different network
- A and B both assume they are on different network

Options 1. 1

- 2 2
- 3.3
- 4.4

Question Type: MCQ

Question ID: 5330723739

Option 1 ID: 53307214553 Option 2 ID: 53307214554

Option 3 ID: 53307214555 Option 4 ID: 53307214556

Status: Answered

Q.106 Arrange the following steps in a proper sequence for the typical process of a DNS query : Downloaded FREE from KumarEdu.com

(A) Query authoritative DNS Server

- (B) Query local DNS Server
- (C) Local DNS Server Check Cache
- (D) Query root DNS Server
- (E) Query TLD DNS Server

Choose the correct answer from the options given below:

- (A), (C), (E), (B), (D) (1)
- (2)(E), (A), (C), (B), (D)
- (3)(A), (B), (C), (D), (E)
- (B), (C), (D), (E), (A)

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type: MCQ

Question ID : 5330723778 Option 1 ID: 53307214709 Option 2 ID: 53307214710 Option 3 ID: 53307214711 Option 4 ID: 53307214712 Status: Answered

Chosen Option: 2

Q.107 Arrange the following recurrence relations in increasing order of their time capacity.

- (A) T(n) = T(n/2) + 1
- (B) T(n) = 2T(n/2) + n
- (C) T(n) = 3T(n/3) + n
- (D) $T(n) = 2T(n/2) + \sqrt{n}$
- (E) T(n) = T(n-1) + 1

Choose the correct answer from the options given below:

- (1) (E), (A), (B), (D), (C)
- (2) (A), (E), (D), (B), (C)
- (3) (E), (A), (D), (B), (C)
- (4) (A), (B), (D), (E), (C)

Options 1. 1

- 2.2
- 3.3
- 4.4

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Question Type: MCQ

Question ID: 5330723774 Option 1 ID: 53307214693 Option 2 ID : 53307214694 Option 3 ID: 53307214695 Option 4 ID: 53307214696 Status: Answered



Q.108 Match List - I with List - II. Downloaded FREE from KumarEdu.com List - I List - II (Counter) (uses/working) (A) N-bit Ring Counter Uses universal clock (II) Counts exactly N states (B) Synchronous Counter (C) Asynchronous Counter (III) Counts 0 to 9 (D) Decimal Counter (IV) Main clock is applied to first flip-flop only Choose the correct answer from the options given below: (1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III) (2)(A)-(IV), (B)-(II), (C)-(III), (D)-(I) (3)(A)-(II), (B)-(I), (C)-(IV), (D)-(III) (A)-(IV), (B)-(I), (C)-(II), (D)-(III) Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID: 5330723805 Option 1 ID: 53307214817 Option 2 ID: 53307214818 Option 3 ID : 53307214819 Option 4 ID: 53307214820 Status: Answered Chosen Option: 3 Q.109 Match List - I with List - II. List - I List - II (software design principles) (Definition) Degree to which one module relies on another Kumar Education (A) Cohesion module. Coupling Dividing a software system into distinct modules. (II)Degree to which elements of a module belong ded FREE from KumarEdu.com (C) Abstration (D) Modularity Simplifying complex reality by modeling classes appropriate to the problem. Choose the correct answer from the options given below: (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) (3)(A)-(III), (B)-(I), (C)-(IV), (D)-(II) (4)(A)-(III), (B)-(IV), (C)-(II), (D)-(I) Options 1. 1 2.2 3. 3 4.4 Question Type : MCQ Question ID : 5330723811 Option 1 ID : 53307214841 Option 2 ID : 53307214842 Option 3 ID : 53307214843 Option 4 ID: 53307214844 Status: Answered Chosen Option: 3



Q.110

Consider the following if p and q are two statements, nloaded FREE from KumarEdu.com

- (A) $\sim (p \land q) \equiv \sim p \lor \sim q$
- (B) $\sim (p \lor q) \equiv \sim p \land \sim q$
- (C) p/~p ≡ T
- (D) $\sim (p \Rightarrow q) \equiv p \land \sim q$
- (E) $p \lor q \equiv \neg p \lor \neg q$

Choose the correct answer from the options given below:

- (A), (B) and (D) Only
- (A), (C) and (D) Only (2)
- (C), (D) and (E) Only (3)
- (A), (B) and (C) Only

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type: MCQ

Question ID : 5330723800

Option 1 ID: 53307214797

Option 2 ID: 53307214798

Option 3 ID: 53307214799 Option 4 ID : 53307214800

Status: Answered

Chosen Option: 3

Q.111

Consider the following statement regarding special purpose registers.

- (A) Program Counter (PC) keeps the track of next instruction executed wnloaded FREE from KumarEdu.com
- (B) Instruction register holds the address of first instruction to be executed
- (C) Accumulator holds the output of ALU
- (D) Program Counter (PC) keeps the track of only first instruction of the program

Choose the correct answer from the options given below:

- (1) (A) and (C) Only
- (A) and (D) Only (2)
- (B) and (D) Only (3)
- (A), (B) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type: MCQ

Question ID : 5330723784

Option 1 ID: 53307214733

Option 2 ID: 53307214734

Option 3 ID : 53307214735

Option 4 ID: 53307214736

Status: Answered



```
Q.112
       Match List - I with List - II.
                                                                       Downloaded FREE from KumarEdu.com
                                       List - II
            List - I
            (Testing Type)
                                       (Description)
       (A) Unit testing
                                      Testing individual components of the software.
       (B) Integrating testing
                                  (II) Testing the interaction between integrated components.
       (C) System testing
                                   (III) Testing to verify the system meets business needs.
       (D) Acceptance testing
                                  (IV) Testing the complete system to ensure it meets
                                       requirements.
       Choose the correct answer from the options given below:
       (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
       (2)
           (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
       (3)
           (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
       (4)
           (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
Options 1. 1
       2.2
       3. 3
       4.4
                                                                                Question Type: MCQ
                                                                                  Question ID : 5330723812
                                                                                  Option 1 ID : 53307214845
                                                                                  Option 2 ID: 53307214846
                                                                                   Option 3 ID: 53307214847
                                                                                   Option 4 ID: 53307214848
                                                                                       Status: Answered
                                                                                Chosen Option: 1
        What will be the output of the following C code?
           #include<stdio.h>
           void main()
                                                                       Kumar Education
                   int arr[5] = \{10, 20, 30, 40, 50\};
                                                                       Downloaded FREE from KumarEdu.com
                   int *p = (int*) (&arr + 1);
                   printf("%d%d", *(arr + 1), *(p - 1));
        (1)
                10 50
        (2)
                20 50
                30 40
        (3)
        (4)
                20 40
Options 1. 1
       2.2
       3. 3
       4.4
                                                                                Question Type: MCQ
                                                                                  Question ID : 5330723746
                                                                                  Option 1 ID: 53307214581
                                                                                  Option 2 ID: 53307214582
                                                                                   Option 3 ID: 53307214583
                                                                                   Option 4 ID: 53307214584
```

Status: Answered

Q.114 is a Self Balancing binary search tree, where the path from the root to the furthest leaf Downloaded FREE from KumarEdu com is no more than twice as long as the path from the root to nearest leaf. (1) Expression tree Game tree (2)Red-Black tree (3)Threaded tree Options 1. 1 2. 2 3.3 4.4 Question Type: MCQ Question ID : 5330723729 Option 1 ID: 53307214513 Option 2 ID: 53307214514 Option 3 ID: 53307214515 Option 4 ID: 53307214516 Status: Answered Chosen Option: 4 Q.115 Let G(V, E) be an undirected graph with l edges. Then the sum of degree of all vertices is equal to 21 (1)(2)1/2 (3) 12 (4) \sqrt{l} Options 1. 1 2.2 3.3 4.4 Question Type Mcc ducation Question ID : 5330723758 Downlo Option 1 ID: 53307214629 KumarEdu.com Option 2 ID : 53307214630 Option 3 ID : 53307214631 Option 4 ID: 53307214632 Status: Answered Chosen Option: 3



Q.116

Select the Sorting Algorithms that are stable.

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- (A) Quick Sort
- (B) Bubble Sort
- (C) Insertion Sort
- (D) Merge Sort
- (E) Shell Sort

Choose the correct answer from the options given below:

- (1) (A), (B), (C) and (E) Only
- (2) (A), (D) and (E) Only
- (3) (B) and (C) Only
- (4) (B), (C) and (E) Only

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type : MCQ

Question ID : <u>5330723793</u>

Option 1 ID : <u>53307214769</u> Option 2 ID : <u>53307214770</u>

Option 3 ID : <u>53307214771</u>

Option 4 ID : 53307214772

Status : Answered

Chosen Option: 2

Q.117 A graph G with number of vertices greater and equal than three i.e. $(n \ge 3)$ is a Hamiltonian graph,

if the degree of each vertex is greater and equal to

- (1) Equal to number of vertices
- (2) Double of number of vertices
- (3) Half of number of vertices
- (4) Four times of number of vertices

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

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Question Type : MCQ

Question ID : 5330723802

Option 1 ID : 53307214805

Option 2 ID : 53307214806

Option 3 ID : 53307214807

Option 4 ID : 53307214808

Status : Answered

```
Kumar Education
Q.118
     Consider the following C code:
                                                    Downloaded FREE from KumarEdu.com
        #include<stdio.h>
        int temp = 0;
        int fun(int x, int y)
           int z; temp++;
           if (y == 3) return(x*x*x);
            else {
                 z = \text{fun}(x, y/3);
                 return(z*z*z);
         int main()
              fun(4, 81);
              printf("%d", temp);
     What will be the output of the above code?
      (1)
           3
           4
      (2)
           5
      (3)
                                                    Kumar Education
      (4)
Options 1. 1
                                                    Downloaded FREE from KumarEdu.com
     2. 2
     3.3
     4.4
                                                          Question Type : MCQ
                                                            Question ID : 5330723731
                                                            Option 1 ID : 53307214521
                                                            Option 2 ID : 53307214522
```

Option 3 ID: 53307214523 Option 4 ID: 53307214524 Status : Answered Chosen Option: 2



Q.119 Match List - I with List - II.

List - I

(Queries)

- (A) A bag contains 6 white and 4 red balls. Two balls are drawn at random. What is the chance, they will be the same colour?
- (B) In a pack of 52 cards, one card is drawn at random, what is the probability that it is either a king or a queen?
- (C) A bag contains 6 red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability of 1 red and 2 white balls?
- (D) A bag contains 6 red, 4 white and 8 blue balls. If three balls are drawn at random. Find the probability of 2 blue and 1 red balls?

Choose the correct answer from the options given below:

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3)(A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Options 1. 1

- 2.2
- 3. 3
- 4. 4

Dawnloaded FREE from KumarEdulcom (Probability)

- 3/68
- (II) 14/68
- (III) 2/3
- (IV) 7/15

Question Type: MCQ

Question ID: 5330723801 Option 1 ID: 53307214801 Option 2 ID: 53307214802 Option 3 ID : 53307214803 Option 4 ID: 53307214804 Status: Answered

Chosen Option: 3

Q.120 Arrange the following steps of Feature Drive Development (FDD) process in the correct sequence: umar Education

- (A) Develop an overall model
- (B) Build by feature
- (C) Plan by feature (D) Design by feature
- (E) Build a feature list

Choose the correct answer from the options given below:

- (1) (A), (C), (B), (E), (D)
- (2)(A), (E), (C), (D), (B)
- (3)(B), (A), (D), (E), (C)
- (4) (A), (B), (C), (E), (D)

Options 1. 1

- 2.2
- 3.3
- 4. 4

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Question Type: MCQ

Question ID: 5330723772 Option 1 ID: 53307214685 Option 2 ID: 53307214686 Option 3 ID : 53307214687 Option 4 ID: 53307214688

Status: Answered



Which of the following are Agile Process Models Cownloaded FREE from KumarEdu.com
(A) Extreme Programming (XP)

- (B) Waterfall
- (C) Scrum
- (D) Spiral
- (E) Incremental

Choose the correct answer from the options given below:

- (1) (A) and (C) Only
- (2) (B) and (C) Only
- (3) (A) and (D) Only
- (4) (B) and (E) Only

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type : MCQ

Question ID : <u>5330723795</u> Option 1 ID : <u>53307214777</u> Option 2 ID : <u>53307214778</u>

Option 3 ID : <u>53307214779</u> Option 4 ID : <u>53307214780</u>

Status : Answered

Chosen Option: 1

Q.122 A vector processor with 16 lanes can perform an operation on 1024 elements with each operation taking 5 clock cycles. How many cycles are needed to complete the operation?

(1) 64

- (1) 64
- (2) 80
- (3) 100 (4) 128

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : <u>5330723765</u>

Option 1 ID : <u>53307214657</u> Option 2 ID : <u>53307214658</u>

Option 3 ID : <u>53307214659</u>

Option 4 ID : 53307214660

Status : Answered

Q.123 Consider a schema R(P,Q,R,S) and the following functional dependencies $P \rightarrow Q$, $Q \rightarrow R$, $R \rightarrow S$, $S \rightarrow Q$. Downloaded FREE from KumarEdu.com

Then decomposition of R₁ (P,Q), R₂ (Q,R) and R₃ (Q,S) is:

(1) Dependency Preserving and lossless join

- (2)Lossless Join but not dependency preserving
- Dependency preserving but not lossless Join
- Not dependency preserving and not lossless join

Options 1. 1

- 2. 2
- 3.3
- 4 4

Question Type: MCQ

Question ID : 5330723753 Option 1 ID: 53307214609 Option 2 ID: 53307214610

Option 3 ID : 53307214611 Option 4 ID : 53307214612

Status: Answered

Chosen Option: 1

Q.124 Match List - I with List - II.

List - I

List - II

- (A) The activation function
- The learning method of perceptron
- is called the delta rule. (I)
- is one of the key components of the perceptron as in the most common neural network architecture.
- (C) Areas of application of artificial neural (III) is always boolean like a switch. network include
- (D) The output of the perceptron
- (IV) system identification and control.

Choose the correct answer from the options given below:

- (1) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

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Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type: MCQ

Question ID: 5330723807

Option 1 ID: 53307214825 Option 2 ID: 53307214826

Option 3 ID: 53307214827

Option 4 ID: 53307214828

Status: Answered

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Q.125 A multi processor system with 16 processors is used to execute a parallelizable task. If the serial portion of the task takes 200 clock cycles and the parallel portion take 800 clock cycles When all 16 ded FREE from KumarEdu.com processor are used how many total clock cycles are required to complete the task?

- (1) 250
- (2) 300
- (3) 400
- (4) 450

Options 1. 1

- 2. 2
- 3.3
- 4 4

Question Type : MCQ

Question ID: <u>5330723763</u>
Option 1 ID: <u>53307214649</u>
Option 2 ID: <u>53307214650</u>
Option 3 ID: <u>53307214651</u>
Option 4 ID: <u>53307214652</u>

Status: Answered

Chosen Option: 2

Q.126 Which of the following statements are TRUE about Privileged Instructions?

- (A) It can only be executed by the Operating System kernel and not by user applications.
- (B) It is designed to perform operations that can directly affect the hardware or system state such as I/O operations or changing memory management setting.
- (C) User applications can execute privileged instructions if they have to correct permissions, set by the Operating System.
- (D) It usually executed in user mode to ensure the safety and security of the system.

Choose the correct answer from the options given below:

- (1) (A) and (B) Only
- (2) (A), (B) and (C) Only
- (3) (B) and (C) Only
- (4) (B), (C) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



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Question Type : MCQ

Question ID: <u>5330723786</u>
Option 1 ID: <u>53307214741</u>
Option 2 ID: <u>53307214742</u>
Option 3 ID: <u>53307214743</u>
Option 4 ID: <u>53307214744</u>
Status: **Answered**

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Q.127 Consider the given number (45)_y where y is the base of the number. Some of the possible values of y are given below.

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(A) 5

(B) 6

(C) 7 (D) 8

Choose the correct answer from the options given below:

(1) (A), (B) and (C) Only

(2) (B), (C) and (D) Only

(3) (A), (C) and (D) Only

(4) (A), (B), (C) and (D)

Options 1. 1

2. 2

3.3

3. 3

Question Type : MCQ

Question ID : <u>5330723783</u>
Option 1 ID : <u>53307214729</u>
Option 2 ID : <u>53307214730</u>
Option 3 ID : <u>53307214731</u>
Option 4 ID : <u>53307214732</u>

Status : Answered

Chosen Option : 4

Q.128 Which of the following tasks could be attained using syntax trees in compiler design?

(A) Type Checking

(B) Code Generation

(C) Code Optimization

(D) Error Handling

Choose the correct answer from the options given below:

(1) (A), (B), (C) Only

(2) (B), (C), (D) Only

(3) (A), (C), (D) Only

(4) (A), (B), (D) Only

Options 1. 1

2. 2

3. 3
 4. 4

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Question Type : MCQ

Question ID : <u>5330723792</u> Option 1 ID : <u>53307214765</u>

Option 2 ID : <u>53307214766</u> Option 3 ID : <u>53307214767</u>

Option 4 ID : <u>53307214768</u> Status : **Answered**

```
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Q.129
         #include<iostream.h>
                                                     Downloaded FREE from KumarEdu.com
         using namespace std;
         void swap(int &x, int &y)
                  int temp = x;
                  x = y;
                  y = \text{temp};
         int main()
                  int a = 5, b = 10;
                  swap(a,b);
                  swap(a,b);
                  cout<<a<<" "<<b;
                  return 0;
      What will be the output of above code?
           5, 10
      (1)
      (2)
           10, 5
           5, 5
      (3)
           10, 10
      (4)
                                                     Kumar Education
Options 1. 1
     2. 2
                                                     Downloaded FREE from KumarEdu.com
     3.3
     4.4
                                                            Question Type: MCQ
                                                             Question ID : 5330723732
                                                              Option 1 ID: 53307214525
                                                              Option 2 ID: 53307214526
                                                              Option 3 ID: 53307214527
                                                              Option 4 ID: 53307214528
                                                                 Status: Answered
                                                           Chosen Option: 1
```

Q.130 Arrange the given steps required for a Direct Memory Access (DMA) transfer in the correct order.

- (A) Initiate DMA transfer request
- Downloaded FREE from KumarEdu.com Transfer data directly between peripheral and memory
- (C) Processor grants DMA control over the system bus
- (D) DMA controller completes data transfer and signals completion

Choose the correct answer from the options given below:

- (1) (C), (A), (B), (D)
- (2)(A), (C), (B), (D)
- (A), (B), (C), (D) (3)
- (C), (B), (A), (D) (4)

Options 1. 1

- 2. 2
- 3.3
- 4 4

Question Type: MCQ

Question ID : 5330723768 Option 1 ID : 53307214669 Option 2 ID: 53307214670 Option 3 ID: 53307214671 Option 4 ID: 53307214672

Status: Answered

Chosen Option: 2

Q.131 Arrange the following stages of parsing in the correct order as they typically occur in the compilation process.

- (A) Lexical Analysis
- (B) Sematic Analysis
- (C) Syntax Analysis
- (D) Intermediate Code Generation
- (E) Code Optimization

Choose the correct answer from the options given below:

- (1) (A), (B), (C), (D), (E)
- (2) (A), (C), (B), (D), (E)
- (3) (A), (D), (B), (C), (E)
- (4) (A), (C), (D), (B), (E)

Options 1. 1

- 2. 2
- 3.3
- 4. 4



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Question Type: MCQ

Question ID: 5330723776 Option 1 ID : 53307214701 Option 2 ID : 53307214702 Option 3 ID: 53307214703

Option 4 ID: 53307214704 Status: Answered



Q.132

Which of the following are TRUE about constructors in C+15? added FREE from KumarEdu.com

- (A) A constructor can be overloaded.
- A constructor does not have a return type.
- A constructor must be declared as a friend function.
- (D) A constructor is called when an object is destroyed.

Choose the correct answer from the options given below:

- (B), (C), (D) Only
- (B), (C) Only (2)
- (3)(A), (B), (C) Only
- (A), (B) Only

Options 1. 1

- 2. 2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 5330723797 Option 1 ID: 53307214785 Option 2 ID: 53307214786 Option 3 ID : 53307214787

Option 4 ID: 53307214788

Status: Answered

Chosen Option: 4

Q.133 Consider the three way hand shaking process followed during TCP connection establishment between two hosts A and B. Let S and R be two random 32-bit starting sequence numbers chosen by A and B, respectively. Suppose A sends a TCP segment having SYN bit=1, SEQ number=8 umar Education

and ACK bit = 0 and B accepts the connection request. Which one of the following choices represents the information present in the TCP segment header

- (1) SYN bit=1, SEQ number=S+1, ACK bit=0, ACK number=R, FiN bit=0
- (2) SYN bit=0, SEQ number=R, ACK bit=1, ACK number=S+1, FiN bit=0
- SYN bit=1, SEQ number=R, ACK bit=1, ACK number=S+1, FiN bit=0
- (4) SYN bit=1, SEQ number=R, ACK bit=1, ACK number=S, FiN bit=0

Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type : MCQ

Question ID : 5330723738 Option 1 ID: 53307214549 Option 2 ID : 53307214550 Option 3 ID : 53307214551

Option 4 ID: 53307214552 Status: Answered

Q.134 Let P be "It is hot day" and q be "The temperature is 48°C". Write in simple sentences the meaning Downloaded FREE from KumarEdu com

of $\sim p \land \sim q$.

- (1) It is hot day or temprature is 48°C It is cold day or temprature is 48°C (2)
- (3)It is neither a hot day nor temperature is 48°C
- It is not a hot day

Options 1. 1

- 2. 2
- 3.3
- 4 4

Question Type: MCQ

Question ID : 5330723760 Option 1 ID: 53307214637 Option 2 ID: 53307214638 Option 3 ID : 53307214639

Option 4 ID : 53307214640 Status: Answered

Chosen Option: 3

Q.135 Match List - I with List - II.

List - I

List - II

- (A) Natural language processing
- A method of training algorithm by rewarding desired behaviour and/or punishing undesired one.
- Reinforcement learning
- (II) System designed to emulate the decision making abilities of a human expert.
- Support vector machine
- (III) A branch of AI focused on understanding and generating human language.
- (D) Expert system
- (IV) A machine learning technique that finds the hyper plane that best separates different class in a feature space.

Choose the correct answer from the options given below:

- (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (A)-(III), (B)-(II), (C)-(I), (D)-(IV) (2)
- (3)(A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (A)-(II), (B)-(IV), (C)-(III), (D)-(I)(4)

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Options 1. 1

- 2. 2
- 3. 3
- 4.4

Question Type: MCQ

Question ID : 5330723808

Option 1 ID : 53307214829 Option 2 ID: 53307214830

Option 3 ID : 53307214831

Option 4 ID : 53307214832

Status: Answered

Q.136 Arrange the following steps in proper sequence involved in a Genetic Algorithm: Downloaded FREE from KumarEdu com

- (A) Selection
- Initialization (B)
- (C) Crossover
- (D) Mutation
- Evaluation

Choose the correct answer from the options given below:

- (1) (A), (B), (C), (D), (E)
- (E), (A), (B), (D), (C)
- (3)(B), (E), (A), (C), (D)
- (4)(A), (C), (B), (D), (E)
- Options 1. 1
 - 2. 2
 - 3.3
 - 4.4

Question Type: MCQ

Question ID : 5330723780 Option 1 ID: 53307214717 Option 2 ID : 53307214718 Option 3 ID : 53307214719 Option 4 ID : 53307214720

Status: Answered Chosen Option: 1

Given a project that uses the COCOMO model with an estimated effort of 2000 person-months and a productivity rate of 5 person-month per KLOC, what is the estimated size of the project in Q.137 KLOC?

- (1) 200
- (2) 400
- 100 (3)
- (4) 50

Options 1. 1

- 2 2 3.3
- 4.4

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Question Type : MCQ

Question ID: 5330723736 Option 1 ID: 53307214541 Option 2 ID: 53307214542 Option 3 ID: 53307214543 Option 4 ID: 53307214544

Status: Answered Chosen Option: 2

(1) (2) (3) (4)	sh a project with an estimated error of 1500 person-hours and a team of 5 people, now many set will it take to complete the project, if each person works 8 hours a day? 30 37.5 40 45.5	m
	Question Type: MCQ Question ID: 5330723737 Option 1 ID: 53307214545 Option 2 ID: 53307214546 Option 3 ID: 53307214547 Option 4 ID: 53307214548 Status: Answered Chosen Option: 3	
(1) (2) (3) (4)	and L_2 are context free languages, which of the following is True about $L_1 \cap L_2$? $L_1 \cap L_2 \text{ is context free}$ $L_1 \cap L_2 \text{ is Regular}$ $L_1 \cap L_2 \text{ is Recursively Enumerable}$ $L_1 \cap L_2 \text{ is Context Sensitive}$	
4.4	Question Type: McQ Question Question ID: 5330723728 DOWNIO Option 1 ID: 53307214509 KumarEdu.co Option 2 ID: 53307214510 Option 3 ID: 53307214511 Option 4 ID: 53307214512 Status: Answered Chosen Option: 1	m



Q.140 Which of the following statements are TRUE about Process Control Block (PCB)

- (A) The PCB contains information about the process state, such as whether it is running, waiting a REE from KumarEductom or terminated
- (B) The PCB includes the program code and data segments of the process
- (C) The PCB stores the process's memory management information, such as page tables and segment tables
- (D) The PCB is used to track process scheduling information and CPU registers for process

Choose the correct answer from the options given below:

- (1) (A), (B) and (C) Only
- (2) (B), (C) and (D) Only
- (3) (A), (C) and (D) Only
- (4) (A) and (B) Only

Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type: MCQ

Question ID : 5330723785 Option 1 ID : 53307214737 Option 2 ID : 53307214738 Option 3 ID: 53307214739 Option 4 ID: 53307214740 Status: Answered

Chosen Option: 3

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers: an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its umar Education performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize ed FREE from KumarEdu.com the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No: 141

Q.141

Which of the following layers may be more than one in number?

- Input layer (1)
- (2)Hidden layer
- (3)Output layer
- Physical layer (4)

Options 1. 1

- 2.2
- 3. 3
- 4.4

Question Type: MCQ

Question ID : 5330723819 Option 1 ID: 53307214869 Option 2 ID: 53307214870 Option 3 ID: 53307214871 Option 4 ID: 53307214872

Status: Answered



Read the below passage and answer the questions .

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Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers: an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No: 142

Q.142

Which of the following is/are the application area(s) of ANN?

- (A) Natural Language Processing
- (B) Image Processing
- (C) Pattern Recognition
- (D) Speech Recognition

Choose the correct answer from the options given below:

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (A), (B) and (C) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

- 2. 2
- 3.3
- 4. 4

Question Type: MCQ Question ID : 5330723821

Downlo Option 1 ID: 53307214877 KumarEdu.com

Option 2 ID : <u>53307214878</u> Option 3 ID : <u>53307214879</u> Option 4 ID : <u>53307214880</u> Status : **Answered**



Read the below passage and answer the questions .

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Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers: an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No: 143

Q.143

What is the role of weights in an ANN?

- (1) To store data
- (2) To adjust and improve network performance
- (3) To control the speed
- (4) To secure the network

Options 1. 1

2. 2

3. 3

4.4

Question Type : MCQ

Question ID : <u>5330723820</u> Option 1 ID : <u>53307214873</u> Option 2 ID : <u>53307214874</u> Option 3 ID : <u>53307214875</u>

Option 4 ID : <u>53307214876</u> Status : **Answered**

Chosen Option : 2

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Read the below passage and answer the questions .

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Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers: an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No: 144

Q.144

Artificial Neural Networks (ANNs) are inspired by :

- (1) Quantum mechanics
- (2) Human brain's neural network
- (3) Computer Hardware architecture
- (4) Genetic algorithm

Options 1. 1

2. 2

3. 3 4. 4

Question Type : MCQ

Question ID : <u>5330723818</u> Option 1 ID : <u>53307214865</u> Option 2 ID : <u>53307214866</u> Option 3 ID : <u>53307214867</u>

Option 4 ID : <u>53307214868</u> Status : **Answered**

Chosen Option : 2



Read the below passage and answer the questions .

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Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers: an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No: 145

Q.145

What is the role of Back Propagation Algorithm?

- (1) To reduce error
- (2) To secure network
- (3) To control speed of data
- (4) To add different layers

Options 1. 1

2. 2

3.3

4. 4

Question Type : MCQ

Question ID : <u>5330723817</u> Option 1 ID : <u>53307214861</u> Option 2 ID : <u>53307214862</u> Option 3 ID : <u>53307214863</u>

Option 4 ID : <u>53307214864</u> Status : **Answered**

Chosen Option: 1



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Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait

SubQuestion No: 146

until its request can be safely fulfilled.

Q.146

What is the significance of the Banker's algorithm in terms of resource management ?

- (1) It enures that all processes can finish their execution without deadlock.
- (2) It eliminates the need for processes to request resources.
- (3) It accelerates the execution of critical sections in processes.
- (4) It minimizes the number of context switches between processes.

Options 1. 1

2. 2

3.3

4. 4

Question Type : MCQ

Question ID : <u>5330723826</u>

Option 1 ID : <u>53307214893</u> Option 2 ID : <u>53307214894</u>

Option 3 ID : 53307214895

Option 4 ID : 53307214896

Status : Answered

Chosen Option: 1

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Read the below passage and answer the questions .

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The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No: 147

Q.147

What is the primary goal of the Banker's Algorithm?

- (1) To allocate resources optimally
- (2) To prevent processes from requesting resources
- (3) To detect and recover from deadlocks
- (4) To maximise CPU utilization

Options 1. 1

2. 2

3.3

4. 4

Question Type : MCQ

Question ID : <u>5330723824</u>
Option 1 ID : <u>53307214885</u>
Option 2 ID : <u>53307214886</u>
Option 3 ID : <u>53307214887</u>

Option 4 ID : <u>53307214888</u>
Status : **Answered**

Chosen Option: 1



Read the below passage and answer the questions .

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The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No: 148

Q.148 Which data structure does the Banker's Algorithm use to maintain the state of available, maximum and allocated resources ?

- (1) Priority Queue
- (2) Hash table
- (3) Wait-for-Graph
- (4) Matrices and Vectors

Options 1. 1

- 2.2
- 3.3
- 4.4

Question Type: MCQ

Question ID : 5330723827

Option 1 ID : <u>53307214897</u> Option 2 ID : <u>53307214898</u>

Option 3 ID : <u>53307214899</u>

Option 4 ID : 53307214900

Status: Answered

Chosen Option: 1

Kumar Education



Read the below passage and answer the questions .

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The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No: 149

Q.149

What information is used to determine if a resource request can be granted?

- (1) Available resources and current allocation of each process
- (2) CPU utilization of each process
- (3) Number of processes waiting for resources
- (4) Arrival time of each process

Options 1. 1

2. 2

3.3

4. 4

Question Type: MCQ

Question ID : <u>5330723823</u> Option 1 ID : <u>53307214881</u> Option 2 ID : <u>53307214882</u>

Option 3 ID : <u>53307214883</u> Option 4 ID : <u>53307214884</u>

Status: Answered

Chosen Option: 1



Read the below passage and answer the questions .

Downloaded FREE from KumarEdu com The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait

SubQuestion No: 150

until its request can be safely fulfilled.

Q.150 Which of the following is NOT a requirement for Banker's algorithm to grant a resource request?

- (1) The requested resources must be available.
- The system must be in a safe state after granting the request.
- (3) The request must not exceed the maximum resources the process can request.
- (4) The process must be the only one requesting resources.

Options 1. 1

- 2. 2
- 3.3
- 4. 4

Question Type: MCQ

Question ID : 5330723825 Option 1 ID: 53307214889 Option 2 ID : 53307214890

Option 3 ID : 53307214891

Option 4 ID: 53307214892 Status: Answered

Chosen Option: 4